MARCH/1994

Metabo

POWER TOOLS and ABRASIVES

GERMANY SINCE 1924 USA

Metabo

Metabo tool works - Nürtingen, Germany

Metabo: The high-performance specialist

As one of the world's leading manufacturers of power tools and abrasives, Metabo, based in Nürtingen, Germany, with manufacturing facilities in both Germany and the United States, specializes in power tools for the professional.

Quality control starts with raw materials and is repeated throughout every step of the manufacturing process, assuring maximum reliability and performance. The Metabo seal is your assurance of power, safety, quality, precision and long life.

Metabo the pioneer

It was early in the nineteen thirties that Metabo placed the first electric hand drill on the market, the famous "750" with a power of 120 watts. Weighing 5.5 lbs., this was no "lightweight" but it was the ancestor of all the Metabo electric tools that followed.

Metabo was the first to mass-produce electric drills with integral percussion mechanism (hammer drills) and thus introduced a new development phase for many electric-tool manufacturers.

Metabo continues to lead the industry with technological advancements in electronic circuitry and mechanical design that result in top performance and durability.

Metabo Corporation - U.S. Headquarters and Manufacturing Plant, West Chester, Pennsylvania

Metabo

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nwsa national welding supply association

american rental association ARA

GRINDING WHEEL INSTITUTE GWI MEMBER

AWS

STAFDA ASSOCIATE

Metabo Corporation reserves the right to make any changes or improvements to products without incurring any liability or obligation whatsoever and without being required to make any corresponding changes or improvements in products previously manufactured or sold.

Metabo

Quality

At Metabo, quality is built in from the development and design stages.

The high quality standards set by Metabo can only be met by using the very best materials and components . All materials and parts are very carefully tested in the Metabo raw material laboratory.

The production of all mechanical and electrical parts is subject to constant quality-control and acceptance tests. Intermediate inspections during assembly then follow and every tool is subjected to a final running-in test. The mechanical and electrical functions are tested and then follows a check on the Metabo slip clutch. And finally - for the user's safety - each power tool is subjected to a 5000 volt insulation test.

Power

Metabo power tools are designed not only to deliver adequate torque at the work spindle but also to have ample power in reserve. From the user's viewpoint, it is the power delivered at the work spindle that is important. Metabo power tools have an exceptionally high efficiency which means that electricity is not wasted in generating heat but is output as effective power.

Safety

Metabo power tools conform to the following international and European safety regulations:

European Community Directive 73/23/EEC
IEC Publication 745
CEE Publication 20
Harmonization Documents HD 400 and
European Standard EN 68

In addition, most Metabo tools sold in the USA also carry a UL listing.
Metabo abrasives manufactured in the USA display the Grinding Wheel Institute Starburst symbol insuring that the abrasive product conforms to all applicable ANSI standards.

(These statements are not to be construed as a form of warranty or admission of third party liability under common law.)

In addition, Metabo provides further safety features such as the Metabo slip clutch which has already proved its worth on more than a million Metabo power tools.

Convenience

Metabo power tools are not only outstanding examples of modern engineering but are also extremely compact and light in weight. All Metabo power tools are built in accordance with the most up-to-date ergonomic findings. Power and safety are tightly packed for easier handling and less operator fatigue.

The structure of electric power tools

Electric power tools have to convert the electrical power they consume efficiently into mechanical power for only then can the user complete his work quickly and efficiently. Drilling, hammer-drilling, driving screws, grinding, sanding, polishing, sawing, planing, routing, and much more besides.

Electric power tools also have to be compact and comfortable and they need to deliver considerable power in spite of being small in size. The ideal drive is the universal motor. The "power consumed" is drawn by the motor through the cord directly from an outlet - or from a battery pack in the case of cordless power tools. The battery pack is recharged by a battery charger which draws new energy from the outlet or from a battery such as a car battery. Thus supplied with energy, the power tool transmits its power to the bit, saw blade, grinding disc or other accessory with which it is fitted. This "output power" is less than the power consumed because certain mechanical and electrical losses occur within the tool. The relationship between the output power and the power consumed is referred to as efficiency.

For certain applications, many electric power tools are reversible and are supplemented by a number of electronic functions (as described under "Electronic Functions on Metabo Power Tools" on pages 3/4). Different jobs call for different working speeds and so most power tools are fitted with a reduction gear to reduce the high speed of a universal motor (up to 30,000 rpm) to the speed required for the work concerned which may vary between 220 and 2,800 rpm for drilling, from 1,800 to 5,000 rpm for sawing and from 5,000 to 12,000 rpm for grinding work.

The scope of some tools, such as electric drills, is further increased by the provision of a two-speed gear-box. The high torque available at the lower speed makes it easy, for example, to work with large-diameter drill bits.

To make them safer, a number of Metabo electric power tools are fitted with a slip clutch to help protect the user from the excessive back-twist torque that could arise on sudden binding (see "Metabo slip clutch" on page 3).

The versatility of impact drills and rotary hammers is increased by provision for switching on or off the impact (or percussion) mechanism. On screwdrivers, an adjustable torque clutch or a depth setting sleeve is a most suitable aid.

A chuck ensures reliable transmission of the torque and concentric rotation of the fitted bits. Metabo has an excellent reputation as a manufacturer of drill chucks. We offer not only conventional geared and keyless chucks but also the Metabo Futuro Top, a range of keyless chucks suitable for impact drilling.

The user should also remember that there is a direct relationship between the quality of his work and the quality of the accessories used . We recommend the use of original Metabo accessories. They are of high quality and are also exactly matched to Metabo electric power tools.

The power consumption of electric tools

The power that an electric tool consumes in practical use depends on the service conditions. The harder the service conditions - the greater the pressure applied, the greater the strength of the material, the larger the bit diameter, the greater the depth of the holes, the depth of cut, the planing width, etc., the greater the power consumption will be.

Power consumption at rated load (rated input)

The means by which this power is measured is the same for all electric power-tool manufacturers throughout the world. It is measured in accordance with IEC (International Electro-technical Commission) Publication 745.

The rated input is the power that the tool consumes in continuous operation to result in its temperature rising to 185° F above the ambient temperature.

The increase in temperature results from the behavior of a universal motor under load. The harder the service conditions, the more power the motor draws from the outlet.

Power consumption (watt) = voltage (volt) x current (ampere) x approximately 0.9

If an electric tool draws more power from the outlet than its rated input, this means that a higher current is passing through its winding wires and this will result in the motor temperature increasing. A power tool can only be so overloaded for a short period. If the temperature increases beyond a certain point, the insulation on the winding wires commences to melt and the windings can burn out. As protection against such a possibility, the high-quality winding wires of Metabo electric power tools have at least 8 coatings of insulation and are thus capable of bearing temperatures of up to 392° F or even appreciably more for short periods. This means that Metabo power tools have a considerable power reserve.

Metabo power tools with electronic winding-temperature monitoring (see "Electronic Function on Metabo Power Tools" on pages 4) have an overload protection device. This helps prevent damage to the motor windings through overheating if the tool should be excessively loaded.

Metabo electric power tools that have a high rated input have higher load limits. This means:

- The tools have a longer service life.
- They work faster.
- They consume less energy.
- They are more versatile.

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Special features of Metabo's electric power tools

Output power

The output power is the power available at the spindle.

Output power
(watt) = speed(rpm) x torque(inch LBS.) x .105

The output power of a typical 500 watt electric drill at rated load is 280 watts.

Speed

The speed at the spindle of a power tool normally decreases as the load applied increases, but with the aid of modern electronic components, this work-related speed drop can be reduced or virtually eliminated.

In the case of the afore-mentioned 500 watt electric drill, the no-load speed is 900 rpm and the speed at rated load is 500 rpm.

Where a power tool has a two-speed gear-box, speeds are indicated for both the lower gear and the higher gear, e.g. no-load speed 950 rpm/2400 rpm, (the first number always indicates the lower speed.)

Torque

The torque available is an important measure of the driving power of an electric power tool.

Torque (inch LBS.) = force (N) x lever arm (m)

The torques indicated in the catalogue differ widely between the various product groups although the rated input of the tools is very similar. This results from differing reduction gear ratios being necessary to suit the work the tools are designed to do and so it is only possible to compare the torques of the various tools within one particular product group.

The torque needed to rotate a drill bit or grinding wheel is determined by the "lever arm", for example, 1/4" for a 1/2" twist drill or 4 1/2" for a 9" diameter grinding wheel.The torque indicated for the above-mentioned 500 watt drill is 106 inch LBS. which is the torque at which the drill works with the highest efficiency and which is about half the torque needed to cause the motor to stall.

The maximum tightening torque of a screwdriver

The torque available for driving screws home and for unscrewing screws is particularly important for this type of electric tool where we are not concerned with a continuous load in the sense of the power consumption but that is only required for a moment or two. For this reason, it s the maximum tightening torque that is indicated for screwdrivers. It corresponds to the torque developed by the tool at the point of stalling (stall torque).

Electronic speed reduction with counterclockwise rotation

The reversing feature on electric power tools is often used for unscrewing screws. This application calls for a low speed in order not to twist off the head of the screw but high torque in order to start the screw turning.

On tools with VTC electronic speed control and speed stabilization the speed is automatically reduced without any reduction in torque when the tool is running in reverse.

Electronic winding-temperature monitoring

Some Metabo electric power tools have a temperature sensor fitted within the motor windings. If the temperature of the windings should approach the maximum permissible value, a signal light flashes to give warning of impending overload.

If this warning is not noticed or is ignored, the electronic speed control acts automatically to reduce the input and thus to reduce the speed of the tool.

Where a Metabo tool is fitted with winding-temperature monitoring, one can take full advantage of the tool's ample power reserve with less risk of burning out the motor windings.

Electronic gentle-starting feature and electronic starting-current limitation

Metabo power tools with TC electronic speed stabilization or VTC speed control and speed stabilization have an automatic gentle-starting feature so that even if the trigger is pulled fully, the tools will start without jerking.

On electric power tools with a high-powered motor this gentle-starting feature also provides starting-current limitation and thus such tools can also be connected to power outlets protected by quick-action fuses or miniature circuit breakers.

Electronic torque control

When working with large-diameter drill bits and when screwing in large screws, one needs a tool with considerable power and high torque. High torque is far from being an advantage, however, when screwing in smaller screws as then it would be easy to twist off the heads of the screws.

For such applications, electronic torque control is a most useful feature. The required torque can be pre-selected and as soon as the set value is reached, the work spindle automatically comes to a stop.

Auto-stop carbon brushes

All Metabo power tools are fitted with auto-stop carbon brushes. These prevent damage being done to the commutator as the result of carbon brushes being badly worn.

Electronic displays

Tools fitted with electronic displays give the operator information which may include one or more of the following:

Readiness for operation, forward or reverse rotation, the fact that a set torque has been reached, or that brushes need changing.

Electronic temperature control on heat guns

On Metabo's heat gun, the temperature of the air delivered can be continuously varied. A temperature sensor measures the temperature of the air leaving the gun and allows it to maintain a constant temperature.

Reversing feature

Metabo power tools can be switched from forward to reverse rotation and are thus also suitable for unscrewing screws and for tapping threads.

Metabo Slip clutch

The Metabo slip clutch, which has proved its worth more than a million times over, helps protect the user from the excessive back-twist torque that could arise if a drill bit should jam or a saw blade should strike a nail or some other obstruction.

Orbital stroke mechanism

The orbital movement of the blade of jig saws, all-purpose saws and reciprocating saws has three convincing advantages. Work is done faster because the sawdust is cleared better from the kerf. Work is easier because less force needs to be applied. The saw blades have a longer service life because they are lifted away from the work on the non-cutting stroke so that friction is reduced.

Winding-protection grid

Foreign matter, such as masonry dust, can enter the motor of an electric tool through the air inlet and outlet openings and, on contacting the blades of the fast rotating fan, some can be thrown against the armature windings and can damage the insulation on the winding wires. A solution to this problem has been found in the Metabo winding-protection grid. Under similar working conditions, motors that are fitted with this grid last some five times as long as those that have no such protection.

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Electronic Functions on Metabo Power Tools

Modern electronic components make Metabo electric power tools increase their convenience, versatility and service life by offering:

- The possibility of continuously varying the speed
- Preselection of the speed
- Maintenance of a constant speed
- Automatic reduction in speed without any loss of torque on reversing the direction
- Monitoring the motor-winding temperature as a means of overload protection
- Gentle, jerk-free starting
- Starting-current limitation
- Function displays
- Varying the airflow rate and maintaining the air at a constant temperature in the case of heat guns.

Electronic speed control and speed stabilization

With the use of electronic components (thyristors or triacs), the speed of electric power tools can be varied.
A thyristor allows current to flow through the motor windings in only one direction (during one "half wave").

On power tools with halfwave electronic speed control, it is possible to increase the speed continuously up to about 70% of the maximum speed and then - e.g. when the trigger is pulled still further - the speed jumps to its maximum value.

If instead of one thyristor, a triac is used or if two thyristors are connected in opposite directions, the on-period for the current flowing in both directions can be continuously varied from a very small value right through to the maximum value ("full wave electronic speed control").

The Metabo electronic speed stabilization systems make it possible to reduce or virtually eliminate the drop in speed that otherwise occurs with a universal motor as load is applied.

Variospeed (V) electronic speed control

Electric power tools with Variospeed (V) electronic speed control are particularly useful when it is necessary to work with considerable sensitivity at very low speeds.

"V" full-wave electronic speed control

Speed at no load
the no-load speed can be continuously varied from a very low value right through to the maximum speed.

Speed behavior under load
As load is applied the speed falls. The lower the set speed, the sooner the tool comes to a stop.

"V" half-wave electronic speed control

Speed at no load
The speed can be varied from a very low value up to about 70% of the maximum speed.

Speed behavior under load
The speed behavior under load is similar to that of the "V" full-wave electronic speed control.

FET electronic speed control for cordless power tools

Cordless tools with FET electronic speed control are particularly recommended when very sensitive work is called for and where it is necessary to adjust the speed to suit a variety of materials.

By means of the FET (Field Effect Transistor) electronic speed control it is possible to vary even the speed of cordless power tools (which are fitted with a DC driving motor).

FET electronic speed control

Speed at no load
The no-load speed can be continuously varied from a very low value right through to the maximum speed.

Speed behavior under load
As load is applied so the speed falls. The lower the set speed, the sooner the cordless tool comes to a stop.

Vario-Constamatic (VC) electronic speed control and speed stabilization

Power tools with VC electronic speed control and speed stabilization are particularly recommended where a tool is required to work under medium to hard service conditions.

Manual readjustment of the speed is seldom necessary.

"VC" full-wave electronic speed control and speed stabilization

Speed at no load
The no-load speed can be continuously varied from a very low value right through to the maximum speed.

Speed behavior under load
The speed at rated load is almost the same as the speed under no load.

"VC" half-wave electronic speed control and speed stabilization

Speed at no load
The speed can be varied from a very low value up to about 55% of the maximum speed.

Speed behavior under load
Within the electronic speed-control range, the speed at rated load is almost the same as the speed at no load.

Constamatic (C) electronic speed stabilization

Angle grinders with C-electronic speed stabilization are especially recommended for medium to heavy service conditions.

"C" full-wave electronic speed stabilization

Motor voltage at no load
The motor is designed so that an internal voltage of only 90V is used to bring it up to full speed. The electronic speed stabilization thus delivers less than the outlet voltage in order to have a reserve available for when load is applied.

Speed behavior under load
The speed at rated load is almost the same as the speed at no load. As load is applied, the voltage is automatically increased. The greater the load, the greater the voltage that is applied to the motor.

Vario-Tacho-Constamatic (VTC) electronic speed control and speed stabilization

Power tools with VTC electronic speed control and speed stabilization are particularly versatile. They are especially recommended for working under the most severe conditions.

No manual readjustment of the speed is necessary as load is applied. An integral tacho-generator ensures optimal speed stabilization between no load and rated load even under the most severe working conditions.

"VTC" full-wave electronic speed control and speed stabilization

Speed at no load
The speed can be continuously varied between an extremely low value and maximum speed.

Motor voltage at no load
The motor is designed so that the maximum speed is already reached with an internal voltage of 80V. The electronic speed stabilization still has 35V available to maintain the constant speed as load is applied.

Speed behavior under load
Even under severe conditions and when working at low speeds, the speed at rated load does not differ appreciably from the speed at no load.

Motor voltage under load
As load is applied, the voltage is automatically increased and thus, the higher the load, the higher the voltage that is fed to the motor.

Tacho-Constamatic (TC) electronic speed stabilization

Angle grinders with TC electronic speed stabilization should be used where it is frequently necessary to work under severe service conditions."

TC" full-wave electronic speed stabilization

Motor voltage at no load
The motor is designed to run at full speed with an internal voltage of only 80V and thus the electronic speed stabilization supplies the motor with less than the full outlet voltage and has an even greater reserve available than is the case with the Constamatic electronic speed stabilization.

Speed under load
Even under severe working conditions, the speed at rated load does not differ appreciably from the speed at no load. The tacho-generator enables the speed to remain constant from no load to full load. As load is applied, the voltage is automatically increased. The greater the load, the greater the voltage that is applied to the motor

Drills

We know that professional workers use drills every day they are on the job. Therefore we have manufactured a full line of drills that suit every application; but that's not enough. We know the drills we make must be powerful, but they must also be well balanced, and comfortable enough to use all day, every day.

In addition, Metabo drills are reliable. They are designed to handle the daily work load of the industrial work-place day in and day out.

NEW

METABO 1/2" Drill Model 626

AVAILABLE WITH RIGHT ANGLE DRIVE AND STEEL CASE AS METABO MODEL # AD 626

UNIQUE *SLIP CLUTCH* PROTECTS BOTH TOOL AND OPERATOR FROM SUDDEN BINDING BY MOMENTARILY ABSORBING SUDDEN SHOCK.

STURDY POLYMER-RESIN MOTOR HOUSING AND METAL GEAR HOUSING FOR ADDED *DURABILITY*

AUTO-STOP BRUSHES PROTECT MOTOR AND ARE EASILY REPLACED

PRECISION GROUND METABO 1/2" GEARED CHUCK

ADJUSTABLE SIDE HANDLE

ERGONOMIC HANDLE DESIGN ENSURES COMFORTABLE OPERATION WITH REDUCED OPERATOR FATIGUE

THIS COMPACT DRILL HAS THE TORQUE OF A MUCH LARGER AND HEAVIER TOOL !!

POWERFUL *6 AMP MOTOR* AND *TRIPLE GEAR REDUCTION* PROVIDE *UNBELIEVABLE* POWER !! GREAT POWER TO WEIGHT RATIO !!

DRIVE HOLE-SAWS UP TO 3 1/8" IN DIA. OR FORSTNER TYPE BITS UP TO 2 3/8" !!

EXTRA LARGE FAN AND *WINDING PROTECTION GRID SYSTEM* PROTECTS ARMATURE WINDINGS FROM EXCESSIVE TEMPERATURES AND HARMFUL AIR BORNE DEBRIS

EXTRA LONG *HEAVY-DUTY POWER CORD* WITH STRAIN RELIEF

ELECTRONIC VARIABLE SPEED CONTROL PROVIDES SMOOTH TRANSFER OF POWER THROUGHOUT THE ENTIRE SPEED RANGE

Metabo

Drills

NEW for '94

NEW for '94

	3/8" Drill	3/8" Drill	3/8"Angle Drill	1/2" Drill
Model	**5042**	**524**	**AD500VS**	**526**
Aluminum die-cast gear housing		●	●	●
2-speed gear-box				
High speed, e.g. for drilling aluminum	●	●		
High torque, e.g. for use with auger bits up to 1 1/2" in diameter				
Triple gear reduction				
Reversing facility	●	●		●
Chuck	3/8" Geared	3/8" Geared	3/8" Geared	1/2" Geared
Metabo slip clutch				●
Auto-stop carbon brushes	●	●	●	●
New switch locking catch, equally accessible to right & left hand users	●			
Winding protection grid				●
Vario-constamatic (VC) electronic speed controlled by dial			●	
Particularly suitable for drilling in confined areas			●	
UL Listed	●		●	
Torque (maximum tightening in inch lbs.)	35 inch lbs.	44 inch lbs.	71 inch lbs.	106 inch lbs.
Capacity				
- in mild steel	**3/8"**	**3/8"**	**3/8"**	**1/2"**
- in softwood	**1"**	**1"**	**1"**	**1 3/16"**
No-load speed (RPM)	**0-2700**	**0-2400**	**500-2200**	**0-1000**
Amps	**4.2**	**4.2**	**5.2**	**5.0**
Rated input watts	**500**	**520**	**500**	**520**
Chuck capacity	**3/8"**	**3/8"**	**3/8"**	**1/2"**
Spindle thread	**1/2 x 20 UNF**	**1/2 x 20 UNF**	**1/2 x 20 UNF**	**1/2 x 20 UNF**
Tool weight	**4.4 LBS.**	**4.0 LBS.**	**5.4 LBS.**	**5.5 LBS.**
Shipping weight	**7 LBS.**	**7 LBS.**	**8 LBS.**	**8 LBS.**
Length	**10 1/4"**	**9"**	**10 3/4"**	**11 1/4"**
Optional carrying case	**55.077**	**55.077**	**55.077**	**55.077**
Standard Equipment:	Precision ground 3/8" chuck (35.252) Chuck key (35.167) Clamping bushing (31.281)	Precision ground 3/8" chuck (35.252) Chuck key (35.167) Clamping bushing (31.281)	Precision ground 3/8" chuck (35.252) Chuck key (35.167) Side Handle (31.400.052)	Precision ground 1/2" chuck (35.250) Chuck key (35.167) Clamping bushing (31.281) Side Handle (31.052)

Metabo

Drills

	NEW for '94	NEW	NEW	
	1/2" Drill	1/2" Triple Gear Reduction Drill	1/2" Triple Gear Reduction AngleDrill	5/8" D-Handle Drill
	703	626	AD626	D720/2VSR
	●	●	●	●
	●			●
		●	●	●
		●	●	
	●	●	●	●
	1/2" Geared	1/2" Geared	1/2" Geared	5/8" Geared
	●	●	●	●
	●	●	●	●
	●	●	●	
	●		●	
	212 inch lbs.	310 inch lbs.	310 inch lbs.	354 inch lbs.
	1/2"	5/8"	5/8"	5/8"
	1 3/16"	1 9/16"	1 9/16"	1 5/8"
	0-900 / 0-2200	0-550	0-550	0-500 / 0-1300
	6.0	6.0	6.0	6.5
	710	650	650	720
	1/2"	1/2"	1/2"	5/8"
	1/2 x 20 UNF	1/2 x 20 UNF	1/2 x 20 UNF	5/8 x 16 UNF
	6.4 LBS.	6.1 LBS.	7.3 LBS.	8.2 LBS.
	9 LBS.	9 LBS.	11 LBS.	12 LBS.
	11 1/2"	11 3/4"	14"	18"
	55.077	55.077	23.999B (standard)	23.126
	Precision ground 1/2" chuck (35.250) Chuck key (35.167) Clamping bushing (31.281) Side Handle (31.052)	Precision ground 1/2" chuck (35.250) Chuck key (35.167) Clamping bushing (31.281) Side Handle (31.052)	Precision ground 1/2" chuck (35.250) Chuck key (35.167) Clamping bushing (31.281) Side Handle (31.052) Rt. Angle drive (27.078)	Precision ground 5/8" chuck (35.253) Chuck key (35.168) Auxilary handle (31.400.028)

Drill Accessories

00.700 Drill Press Stand

Distance from bit center to column face 4 3/4"
Depth of feed 3 3/8"
Column diameter 1 3/8"
Base size 8 5/8" x 9 3/8"
Weight 15 LBS.
Neck opening 43mm

Easily mounts to workbench with (2) optional 27.107 mounting clamps

- Heavy-duty drill stand, converts drills or hammer drills into a drill press quickly and easily
- Sturdy slotted base suitable for mounting a vise
- Column can be rotated 180° for special drilling operations
- Rack and pinion feed operation
- Accepts all Metabo pistol grip drills (except cordless tools)
  Note: Model D480VSR and HD480VSR require use of 30.707 reducing sleeve

27.078 Right Angle Drive

Drive Ratio:	1:1
Thread size	1/2"x 20 UNF
Weight	1 1/4 LBS.
Length:	4"

- Converts all Metabo pistol grip drills and hammer drills to right angle tools (can be used on hammer drills in drilling mode only)
- Right angle drive allows access for hard to reach applications
  Note: Models 5042, 5050, and 5051 require use of optional hex nut 27.601.

Mixers

31.200 Dual Blade Mixer

- Great for light-duty mixing
- Fits all Metabo pistol grip drills (except cordless)
- Equipped with side handle
- Mixer blades rotate at 1/3 of drill speed

Drive Ratio:	1:3
Weight:	4 lbs.
Blade Length:	15 1/4"

5042,5050,5051 require optional hex nut (27.601)

30.730 Paint Stirrer

Light-duty stirrer for thin liquids. Overall length is 14 inches

31.044 Mini-mixer

4" dia. stirrer suitable for medium consistancy materials

31.043 Heavy-duty Mixer

5 1/2" dia. stirrer suitable for mixing materials of heavy consistancy

31.043 31.044 30.730

Chucks and Arbors

The right Metabo chuck for every job

The very highest quality, precision in every detail, ease of handling and long service life are outstanding features of Metabo manufactured drill chucks.

The individual parts of the chucks have to pass more than 30 inspection points in the course of production. After assembly each chuck is checked thoroughly for true running and reliabilty. This is the guarantee of highest quality.

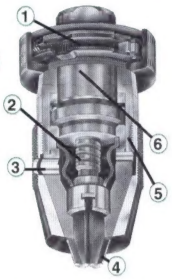
Keyless Chucks for cordless drill/drivers

Bit clamping without using a chuck key

Quick and easy bit change

Bits can be secured by holding the rubber ring on the chuck with the hand and running the tool in forward until the chuck grips the bit.
The tool can be run in reverse in the same way to open the chuck.

Keyless Chuck Futuro Top



The world's first keyless chuck suitable for impact drilling, with spring-loaded bit clamping mechanism and dual dust protection.

Bit clamping without using a chuck key.
The grip of the chuck adjusts automatically to match the force applied by the cutting edges of the fitted bit.
During impact drilling operation the chuck is subjected to as many as 56,000 blows per minute.
The spring-loaded bit clamping mechanism (1) holds the fitted bit securely - even when working continuously under extremely severe conditions.
Dual dust protection: Oil-resistant hard-wearing rubber bellows (2) protect the driving thread and the press fits of the chuck against dust and dirt. Any dust that may pass between the jaw guide and the rubber bellows is ejected through the openings (3) in the chuck sleeve.
Every part subject to severe stress is hardened.
The jaws (4), guide sleeve (5) and chuck body (6) are precision ground to ensure both a precision press fit and long service life.

Reversible Geared Chucks

Capacity	Mount	Cat.No.
0-3/8	1/2"x20 UNF	35.251
1/64-3/8"	1/2"x20 UNF	35.252
1/16"-1/2"	1/2"x20 UNF	35.250
1/8"-1/2"	5/8"x16 UNF	35.253
1/32"-3/8"	1/2"x20 UNF	35.305

Futuro Top Keyless Chucks for Hammer Drills & Reversing Drills

Series No.	Capacity	Mount	Cat.No.
805-1/10	1/16"-3/8"	3/8"x24 UNF	36.215
805-1/10	1/16"-3/8"	1/2"x20 UNF	36.216
805-2/13	0"-1/2"	3/8"x24 UNF	36.225
805-2/13	0"-1/2"	1/2"x20 UNF	36.226

Geared Chucks for Drills and Hammer Drills

Capacity	Mount	Cat.No.
0-1/4"	3/8"x24 UNF	35.008
	1/2"x20 UNF	35.010
0-5/16"	3/8"x24 UNF	35.017
	1/2"x20 UNF	35.018
	B12	35.013
1/64"-3/8"	3/8"x24 UNF	35.019
	1/2"x20 UNF	35.072
1/64"-3/8"	3/8"x24 UNF	35.031
	1/2"x20 UNF	35.032
	J2	35.026
	J33	35.028
1/16"-1/2"	3/8"x24 UNF	35.033
	1/2"x20 UNF	35.035
	B16	35.036
1/32"-1/2"	1/2"x20 UNF	35.042
	5/8"x16 UNF	35.044
	B16	35.037
	J33	35.040
	J6	35.038
1/8"-5/8"	1/2"x20 UNF	35.054
	5/8"x16 UNF	35.056
	B16	35.050
	J6	35.052

Futuro Keyless Chucks for Drills

Series No.	Capacity	Mount	Cat.No.
801-0	0-1/4"	3/8"x24 UNF	36.301
801-0	0-1/4"	J1	36.304
801-1	0-5/16"	3/8"x24 UNF	36.311
801-1	0-5/16"	1/2"x20 UNF-	36.312
801-1/10	1/16"-3/8"	3/8"x24 UNF	36.321
801-1/10	1/16"-3/8"	1/2"x20 UNF	36.322
801-2	0-3/8"	3/8"x24 UNF	36.331
801-2	0-3/8"	1/2"x20 UNF	36.332
801-2	0-3/8"	B16	36.333
801-2	0-3/8"	J2	36.334
801-2	0-3/8"	J33	36.335
801-2/13	0-1/2"	3/8"x24 UNF	36.341
801-2/13	0-1/2"	1/2"x20 UNF	36.342
801-2/13	0-1/2"	B16	36.343
801-3	1/32"-1/2"	1/2"x20 UNF	36.351
801-3	1/32"-1/2"	5/8"x16 UNF	36.352
801-3	1/32"-1/2"	B16	36.353
801-3	1/32"-1/2"	J2	36.354
801-3	1/32"-1/2"	J33	36.355
801-3	1/32"-1/2"	J6	36.356
801-4	1/8"-5/8"	5/8"x16 UNF	36.361
801-4	1/8"-5/8"	B16	36.362
801-4	1/8"-5/8"	B18	36.363
801-4	1/8"-5/8"	J6	36.364

Drill Chuck Keys

For Drill Chucks	Cat.No.
35.003-35.010	35.165
35.013-35.036	35.167
35.069/72-35.250/52	35.167
35.037-35.056	35.168
35.253	35.168

Keyless Chucks for Cordless Tools

Series No.	Capacity	Mount	Cat.No.
SBE10R+L	1/64"-3/8"	1/2" x 20 UNF	36.500
SBE10R+L	1/64"-3/8"	3/8" x 24 UNF	36.502

For drilling applications requiring frequent reversing we recommend Futuro Top Keyless Chucks

Taper Arbors "J" Type

MorseTaper	Drill Chuck Taper	Cat.No.
No. 2	J33	35.119
No. 2	J6	35.121
No. 3	J6	35.131
No. 3	J33	35.130

Taper Arbors "B" Type

MorseTaper	Drill Chuck Taper	Cat.No.
No. 2	B12	35.114
No. 2	B16	35.115
No. 2	B18	35.116

Metabo

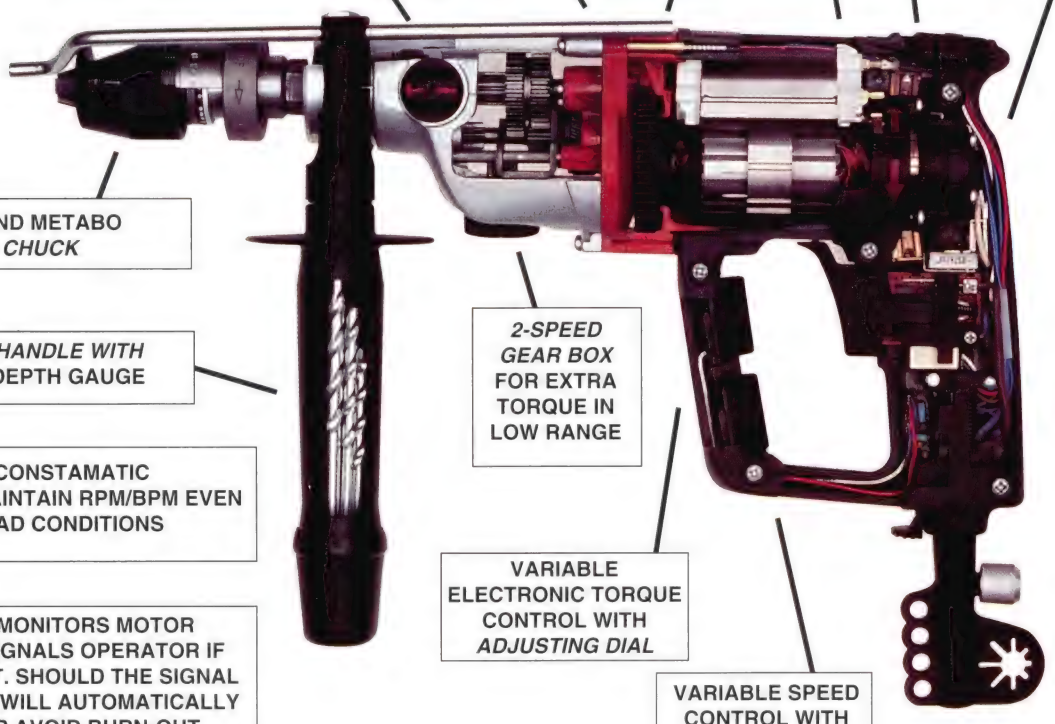
Hammer Drills

Metabo hammer drills are industry leaders for a variety of reasons.

We design our hammer drills to hammer or drill giving the operator a more versatile tool. Also, most have a 2-speed gear box for more torque in the lower speed range. Additionally, Metabo hammer drills are available with a variety of electronic features to accomodate any given application. Features such as electronic speed stabilization enable a tool to run at its rated RPM/BPM even under full-load conditions, or a thermal sensor automatically shuts down the tool if excessive temperatures threaten to burn-up the tool.

Metabo takes *extra* care to build hammer drills that have the power to get the job done fast and efficiently !!

METABO 7/8" Hammer Drill Model 1015



UNIQUE *SLIP CLUTCH* PROTECTS BOTH TOOL AND OPERATOR FROM SUDDEN BINDING BY MOMENTARILY ABSORBING SUDDEN SHOCK.

EXTRA LARGE FAN AND *WINDING PROTECTION GRID* SYSTEM PROTECTS ARMATURE WINDINGS FROM EXCESSIVE TEMPERATURES AND HARMFUL AIR BORNE DEBRIS

NEW POLARITY REVERSING SWITCH PROVIDES FOR FULL POWER AND TORQUE IN FORWARD OR REVERSE

AUTO-STOP BRUSHES PROTECT MOTOR AND ARE EASILY REPLACED

DRILL / HAMMERDRILL *SELECTOR SWITCH*

LED DISPLAY

PRECISION GROUND METABO 1/2" *KEYLESS CHUCK*

ADJUSTABLE *SIDE HANDLE WITH BIT STORAGE* AND DEPTH GAUGE

2-SPEED GEAR BOX FOR EXTRA TORQUE IN LOW RANGE

VARIO-TACHO CONSTAMATIC SPEED CONTROL TO MAINTAIN RPM/BPM EVEN UNDER FULL LOAD CONDITIONS

VARIABLE ELECTRONIC TORQUE CONTROL WITH *ADJUSTING DIAL*

THERMAL SENSOR MONITORS MOTOR TEMPERATURE AND SIGNALS OPERATOR IF OVERLOAD IS IMMINENT. SHOULD THE SIGNAL BE IGNORED THE TOOL WILL AUTOMATICALLY SHUT DOWN TO HELP AVOID BURN-OUT.

VARIABLE SPEED CONTROL WITH *ADJUSTING DIAL*

ERGONOMIC HANDLE DESIGN PROVIDES FOR COMFORTABLE OPERATION WITH REDUCED OPERATOR FATIGUE

RUGGED POLYMER-RESIN MOTOR HOUSING AND METAL GEAR HOUSING FOR ADDED *DURABILITY*

HEAVY-DUTY POWER CORD WITH STRAIN RELEIF

Metabo

Hammer Drills

	1/2" Hammer Drill	1/2" Hammer Drill	5/8" Hammer Drill
Model	**5050 / 5051**	**HD500/2VSR**	**HD620/2**
Aluminum die-cast gear housing		●	●
2-speed gear-box		●	●
Electric gentle start feature			
Variable speed controlled by adjusting dial			
Variable torque controlled by adjusting dial			
Reversing facility	●	●	
Chuck	3/8" Geared / 1/2" Geared	1/2" Geared	1/2" Geared
Metabo slip clutch		●	●
Auto-stop carbon brushes	●	●	●
New switch locking catch, equally accessible to right & left hand users	●		
Winding protection grid		●	●
LED Display showing spindle rotation and overload sensor			
UL listed		●	●
Torque (maximum tightening measured in inch lbs.)	35 inch lbs.	106 inch lbs.	124 inch lbs.
Capacity			
- in concrete	**1/2"**	**1/2"**	**5/8"**
- in mild steel	**3/8"**	**3/8"**	**1/2**
- in softwood	**1"**	**1"**	**1 1/4"**
No-load speed (RPM)	**0-2700**	**0-900 / 0-2400**	**0-950 / 0-2400**
No-load blows per minute (BPM)	**0-50000**	**0-18000 / 0-50000**	**0-20000 / 0-48000**
Amps	**4.2**	**5.0**	**6.0**
Rated input watts	**500**	**570**	**705**
Chuck capacity	**3/8"(5050) 1/2" (5051)**	**1/2"**	**1/2"**
Spindle thread	**1/2 x 20 UNF**	**1/2 x 20 UNF**	**1/2 x 20 UNF**
Tool weight	**5.2 LBS./ 5.4 LBS.**	**6.0 LBS.**	**6.4 LBS.**
Shipping weight	**8 LBS./ 10 LBS.**	**9 LBS.**	**9 LBS.**
Length	**10 3/4"**	**12 3/8"**	**12 3/8"**
Optional carrying case	**55.077**	**55.077**	**55.077**
Standard Equipment:	Precision ground 3/8" chuck (35.305) 5050 Precision ground 1/2" chuck (35.250) 5051 Side handle (31.052) Depth gauge (27.288) Chuck key (35.167) Clamping bushing (31.281) Carrying case (31.393 for 5051 only)	Precision ground 1/2" chuck (35.250) Side handle (31.052) Depth gauge (27.288) Chuck key (35.167) Clamping bushing (31.281)	Precision ground 1/2" chuck (35.035) Side handle (31.052) Depth gauge (27.288) Chuck key (35.167) Clamping bushing (31.281) **Also suitable for occasional DC use**

Metabo

Hammer Drills

NEW

5/8" Hammer Drill

655

NEW

3/4" Hammer Drill

751

3/4" Hammer Drill

0851

NEW for '94

3/4" Hammer Drill

900

7/8" Hammer Drill

1015

●	●	●	●	●
●	●	●	●	●
		●	●	●
			●	●
		●	●	●
●	●	●	●	●
1/2" Geared	1/2" Geared	1/2" Geared	1/2" Geared	1/2" Keyless
●	●	●	●	●
●	●	●	●	●
	●	●	●	●
●	●	●	●	●
		●	●	●
		●		●
124 inch lbs.	142 inch lbs.	142 inch lbs.	159 inch lbs.	159 inch lbs.

5/8"	**3/4"**	**3/4"**	**3/4"**	**7/8"**
1/2	**1/2**	**1/2"**	**5/8"**	**5/8"**
1 1/4"	**1 1/4"**	**1 1/2"**	**1 1/2"**	**1 1/2"**
0-1000 / 0-2400	**0-1200 / 0-2800**	**0-1000 / 0-2400**	**0-1000 / 0-2400**	**0-1000 / 0-2400**
0-20000 / 0-48000	**0-24000 / 0-56000**	**0-20000 / 0-48000**	**0-20000 / 0-48000**	**0-20000 / 0-48000**
5.5	**6.2**	**7.0**	**7.0**	**8.0**
650	**750**	**850**	**900**	**1010**
1/2"	**1/2"**	**1/2"**	**1/2"**	**1/2"**
1/2 x 20 UNF	**1/2 x 20 UNF**	**1/2 x 20 UNF**	**1/2 x 20 UNF**	**1/2 x 20 UNF**
6.6 LBS.	**6.9 LBS.**	**7.1 LBS.**	**7.3 LBS.**	**7.4 LBS.**
9 LBS.	**10 LBS.**	**10 LBS.**	**10 LBS.**	**10 LBS.**
12 3/8"	**12 3/4"**	**13"**	**13"**	**13"**
55.077	**55.077 (standard)**	**55.077**	**55.077**	**55.077 (standard)**
Precision ground 1/2" chuck (35.250) Side handle (31.072) Depth gauge (27.288) Chuck key (35.167) Clamping bushing (31.281)	Precision ground 1/2" chuck (35.250) Side handle (31.072) Depth gauge (27.288) Chuck key (35.167) Clamping bushing (31.281) Carrying case (55.077)	Precision ground 1/2" chuck (35.250) Chuck key (35.167) Side handle (31.072) Depth gauge (27.288) Clamping bushing (31.281)	Precision ground 1/2" chuck (35.250) Chuck key (35.167) Side handle (31.072) Depth gauge (27.288) Clamping bushing (31.281)	Precision ground keyless 1/2" chuck (36.226) Side handle (31.072) Depth gauge (27.288) Clamping bushing (31.281) Carrying case (55.077)

Metabo

Carbide Bits - Straight Shank - SDS - Spline

Straight Shank Hammer Drill Bits

Cat. No.	Bit Dia. X Overall Length X Shank Dia.
88.150	1/8"x3"x1/8"
88.151	3/16"x4"x3/16"
88.152	1/4"x4"x1/4"
88.153	1/4"x6"x1/4"
88.154	1/4"x13"x1/4"
88.155	5/16"x4"x1/4"
88.156	5/16"x6"x1/4"
88.157	5/16"x13"x1/4"
88.158	3/8"x4"x3/8"
88.159	3/8"x6"x3/8"
88.160	3/8"x13"x3/8"
88.161	7/16"x6"x3/8"
88.162	1/2"x6"x3/8"
88.163	1/2"x13"x3/8"
88.164	9/16"x6"x1/2"
88.165	5/8"x6"x1/2"
88.166	5/8"x13"x1/2"
88.167	3/4"x6"x1/2"
88.168	3/4"x13"x1/2"
88.169	7/8"x6"x1/2"
88.170	7/8"x13"x1/2"
88.171	1"x6"x1/2"
88.172	1"x13"x1/2"

SDS Shank Bits

Cat. No.	Bit Dia.	Drilling Depth	Overall Length
88.001	3/16"	2"	4"
88.054	3/16"	4"	6"
88.056	3/16"	6"	8"
88.057	3/16"	10"	12"
88.002	1/4"	2"	4"
88.003	1/4"	4"	6"
88.058	1/4"	6"	8"
88.059	1/4"	10"	12"
88.004	5/16"	4"	6"
88.005	5/16"	10"	12"
88.007	5/8"	4"	6"
88.009	3/8"	10"	12"
88.055	3/8"	22"	24"
88.010	7/16"	4"	6"
88.011	1/2"	4"	6"
88.012	1/2"	10"	12"
88.014	1/2"	16"	18"
88.015	9/16"	4"	6"
88.016	9/16"	10"	12"
88.017	9/16"	16"	18"
88.018	5/8"	6"	8"
88.020	5/8"	16"	18"
88.029	5/8"	22"	24"
88.021	3/4"	6"	8"
88.023	3/4"	16"	18"
88.024	7/8"	6"	8"
88.026	7/8"	16"	18"
88.027	1"	8"	10"
88.028	1"	16"	18"

Spline Shank Bits

Cat. No.	Bit Dia.	Drilling Depth	Overall Length
88.101	3/8"	3"	8"
88.102	3/8"	6"	11"
88.103	1/2"	5"	10"
88.104	1/2"	11"	16"
88.105	1/2"	17"	22"
88.106	1/2"	22"	27"
88.107	9/16"	5"	10"
88.108	5/8"	5"	10"
88.109	5/8"	11"	16"
88.110	5/8"	17"	22"
88.111	5/8"	22"	27"
88.112	5/8"	28"	33"
88.113	3/4"	11"	16"
88.114	3/4"	17"	22"
88.115	3/4"	22"	27"
88.116	3/4"	28"	33"

Cat. No.	Bit Dia.	Drilling Depth	Overall Length
88.117	7/8"	11"	16"
88.118	7/8"	17"	22"
88.119	1"	11"	16"
88.120	1"	17"	22"
88.121	1"	31"	36"
88.122	1 1/8"	11"	16"
88.123	1 1/8"	17"	22"
88.124	1 1/4"	11"	16"
88.125	1 1/4"	17"	22"
88.126	1 1/4"	31"	36"
88.127	1 3/8"	11"	16"
88.128	1 3/8"	17"	22"
88.129	1 1/2"	17"	22"
88.130	1 3/4"	17"	22"

Rotary Hammers

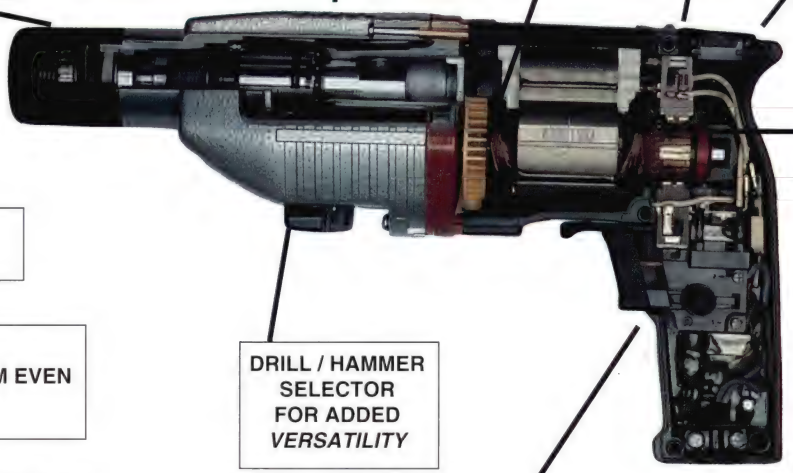
Metabo manufactures both spline and SDS rotary hammers.

The SDS hammers are lightweight hammers with plenty of "punch". Designed to use the standard SDS (slotted drive system) carbide bit, these compact hammers have a great power to weight ratio and are typically much faster than the larger spline drive hammers when drilling holes up to 1" in diameter. All Metabo SDS hammers can be switched to *rotation only* mode and used to drill large holes in materials other than concrete. These rugged tools are ergonomically designed to help lessen operator fatigue and come in several versions, each with a varying degree of amperage and electronics, so that the operator may choose the right tool for any given application.

Our spline drive hammers are larger and heavier than SDS hammers and are designed to take on the toughest jobs. Rated up to 1 3/4" maximum drilling diameter these powerful hammers deliver up to 5 joules of hitting force 3000 times per minute.

All Metabo spline drive and SDS rotary hammers come in a steel carrying case.

METABO 1" SDS ROTARY HAMMER MODEL 6026



UNIQUE *SLIP CLUTCH* PROTECTS BOTH TOOL AND OPERATOR FROM SUDDEN BINDING BY MOMENTARILY ABSORBING SUDDEN SHOCK.

EXTRA LARGE FAN AND *WINDING PROTECTION GRID SYSTEM* PROTECTS ARMATURE WINDINGS FROM EXCESSIVE TEMPERATURES AND HARMFUL AIR BORNE DEBRIS

LED DISPLAY

VARIABLE SPEED CONTROL WITH *ADJUSTING DIAL*

KEYLESS "KLICK-KLACK" CHUCK PROVIDES FAST, TROUBLE FREE BIT CHANGE

AUTO-STOP BRUSHES PROTECT MOTOR AND ARE EASILY REPLACED

ADJUSTABLE *SIDE HANDLE WITH BIT STORAGE* AND DEPTH GAUGE

VARIO-TACHO CONSTAMATIC SPEED CONTROL TO MAINTAIN RPM/BPM EVEN UNDER FULL LOAD CONDITIONS

DRILL / HAMMER SELECTOR FOR ADDED *VERSATILITY*

STEEL CARRYING CASE

THERMAL SENSOR MONITORS MOTOR TEMPERATURE AND SIGNALS OPERATOR IF OVERLOAD IS IMMINENT. SHOULD THE SIGNAL BE IGNORED THE TOOL WILL AUTOMATICALLY SHUT DOWN TO HELP AVOID BURN-OUT.

RUGGED POLYMER-RESIN MOTOR HOUSING AND METAL GEAR HOUSING FOR ADDED *DURABILITY*

HEAVY-DUTY POWER CORD WITH STRAIN RELIEF

ERGONOMIC HANDLE DESIGN PROVIDES FOR COMFORTABLE OPERATION WITH REDUCED OPERATOR FATIGUE

A POWERFUL 8.5 AMP MOTOR AND HELICAL CUT, HARDENED STEEL GEARS PRODUCE SMOOTH, EFFICIENT AND *AGGRESSIVE PERFORMANCE*

Metabo

Rotary Hammers

SDS Hammers

	3/4" SDS Rotary Hammer	3/4" SDS Rotary Hammer	1" SDS Rotary Hammer
Model	**6010**	**6020**	**6026**
Single blow energy (measured in joules)	0-1.6 joules	0- 2.2 joules	0- 2.4 joules
Suitable for self drilling anchors			
Suitable for light chiselling work	●	●	●
Percussion stop for drilling only operations	●	●	●
Rotation stop e.g. for setting self-drilling anchors			
Aluminum die-cast housing	●	●	●
Reversing facility	●	●	●
Metabo slip clutch	●	●	●
Auto-stop carbon brushes	●	●	●
Winding protection grid	●	●	●
LED Display showing spindle rotation and overload sensor			●
Electronic speed stabilizer		●	●
Variable speed controlled by adjusting dial			●
Winding-temperature monitor with auto-shutdown		●	●
U L Listed	●	●	
Torque (maximum tightening measured in inch lbs.)	97 inch lbs.	124 inch lbs.	159 inch lbs.
Capacity			
- in concrete using solid bits	**3/4"**	**3/4"**	**1"**
- in concrete using core bits	**n/a**	**n/a**	**n/a**
- in mild steel	**1/2"**	**1/2"**	**1/2"**
- in softwood	**1 1/4"**	**1 1/2"**	**1 5/8"**
No-load speed (RPM)	**0-1050**	**0-1000**	**0-1000**
No-load blows per minute (BPM)	**0-4900**	**0-4200**	**0-4200**
Amps	**4.5**	**6.0**	**8.5**
Rated input watts	**500**	**600**	**1010**
Tool weight	**6.7 LBS.**	**7.4 LBS.**	**7.9 LBS.**
Shipping weight	**15 LBS.**	**16 LBS.**	**16 LBS.**
Length	**11 3/4"**	**13"**	**13"**
Optional carrying case	**55.077 (standard)**	**55.077 (standard)**	**55.077 (standard)**
Standard Equipment:	Side handle (31.072) Depth gauge (27.288) Carrying case (55.077)	Side handle (31.072) Depth gauge (27.288) Carrying case (55.077)	Side handle (31.072) Depth gauge (27.288) Carrying case (55.077)

Metabo

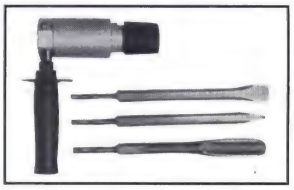
Spline Drive Hammers

	1 1/2" Spline Drive Rotary Hammer	1 3/4" Spline Drive Rotary Hammer	1 3/4" Spline Drive Rotary Hammer
	6030	RH99	RH99X
	0- 4.2 joules	5.0 joules	5.0 joules
	●		●
	●	●	●
	●		●
	●	●	●
	●	●	●
	●	●	●
		●	●
	265 inch lbs.	663 inch lbs.	663 inch lbs.
	1 1/2"	1 3/4"	1 3/4"
	3"	3 1/2"	3 1/2"
	n/a	n/a	n/a
	n/a	n/a	n/a
	0-650	300	300
	0-3500	3000	3000
	6.0	9.2	9.2
	750	1050	1050
	15.1LBS.	19.0 LBS.	19.2 LBS.
	34 LBS.	38 LBS.	38 LBS.
	14 3/4"	17 1/2"	17 1/2"
	34.445.011 (standard)	34.445.011 (standard)	34.445.011 (standard)
	Side handle (31.601.060) Depth gauge (34.151.203) Dust caps (30.717) Carrying case (34.445.011)	Side handle (31.601.060) Depth gauge (34.151.203) Dust caps (30.717) Carrying case (34.445.011) **Also suitable for occasional DC use**	Side handle (31.601.060) Depth gauge (34.151.203) Dust caps (30.717) Carrying case (34.445.011) **Also suitable for occasional DC use**

Accessories

SDS ACCESSORIES

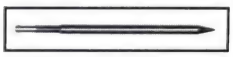
Chisels / Chiselling adaptor



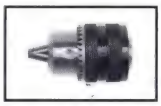
31.408 Chiseling adaptor - fits over existing chuck of 6010, 6018, 6020, and 6026

31.420 - Cold chisel - SDS shank
31.421 - Pointed chisel - SDS shank
31.422 - Grooving chisel - SDS shank
31.425 - 2" Scaling chisel (Not Pictured)

30.992 Bull point chisel
(does not need chiselling adaptor)



SDS chuck (30.335) for TE bits
(use with adaptor 30.928)



Geared chuck (35.035) for steel and wood drilling bits
(use with adaptor 31.285)

30.928 SDS chuck adaptor with 1/2 x 20 threads. Use it to mount specialty chucks and accessories on Metabo SDS rotary hammers.

31.285 SDS chuck adaptor is suitable for drilling applications only. For use with most 1/2 x 20 thread chucks on all Metabo SDS rotary hammers (includes clamping bushing for 1/4" hex accessories).

SPLINE DRIVE ACCESSORIES

30.257 SDS bit adaptor for RH99, RH99X, 1129,6030

55.067 chuck shank

Chuck Heads

1/4"	55.069
5/16"	55.070
3/8"	55.071
1/2"	55.072
5/8"	55.073
3/4"	55.074

55.076 Ejector key
to remove anchor cone from chuck head

23.308
Blow out bulb

to clean anchor hole

55.068 Drift pin
to separate chuck head from chuck shank

Chisels for Spline Drive Hammers

23.360 Bull Point Chisel
Overall Length 12"

30.380 Bull Point Chisel
Overall Length 18"

23.361 Cold Chisel
Overall Length 12" Face 1"

30.381 Cold Chisel
Overall Length 18" Face 1"

23.362 Grooving Chisel
Overall Length 12"

23.363 Scaling Chisel
Overall Length 12" Face 2"

23.364 Slotting Chisel
Overall Length 12" Face 1"

55.078 Bush head
Overall Length 9 7/8" Face 1 7/8"

Cordless tools

Metabo manufactures its cordless tool line for the professional who uses his tools as part of his job. We build them to the same exacting standards as our corded tools, and we engineer them to yield the same two characteristics; *long life* and *high performance.*

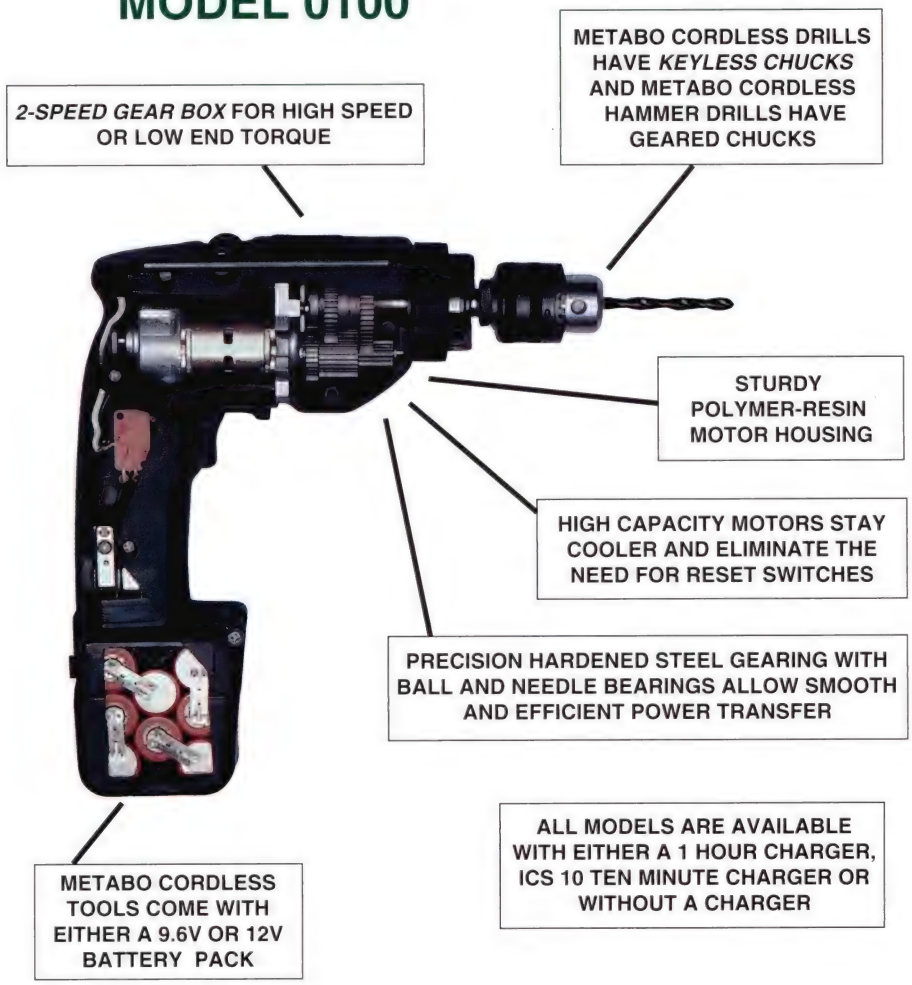
Cordless tool motors have no cooling fan. Metabo engineers have designed large, high capacity motors with *power reserves,* to avoid the problem of overheating and to eliminate the need for an overload "cutout" switch. This not only saves time on the job, but results in extra torque available to do the job even faster!

By combining these high capacity, reserve power motors with select gearing systems, Metabo two speed cordless drills deliver an impressive 124 inch lbs. of torque in low gear.

Add in the advantages of FET (Field Effect Transistor) variable speed electronics, adjustable torque collars, and the MASTERCHARGE® cordless tool charging system and you have the most powerful, highest performing cordless tool *system* available to the professional tool user.

Remember, we design our cordless tools for long life, top performance, and user comfort and convenience.

METABO 3/8" CORDLESS HAMMER DRILL MODEL 0100


2-SPEED GEAR BOX FOR HIGH SPEED OR LOW END TORQUE
METABO CORDLESS DRILLS HAVE *KEYLESS CHUCKS* AND METABO CORDLESS HAMMER DRILLS HAVE GEARED CHUCKS
STURDY POLYMER-RESIN MOTOR HOUSING
HIGH CAPACITY MOTORS STAY COOLER AND ELIMINATE THE NEED FOR RESET SWITCHES
PRECISION HARDENED STEEL GEARING WITH BALL AND NEEDLE BEARINGS ALLOW SMOOTH AND EFFICIENT POWER TRANSFER
ALL MODELS ARE AVAILABLE WITH EITHER A 1 HOUR CHARGER, ICS 10 TEN MINUTE CHARGER OR WITHOUT A CHARGER
METABO CORDLESS TOOLS COME WITH EITHER A 9.6V OR 12V BATTERY PACK

Metabo

Metabo ICS 10

Item # 31.102

MasterCharge®

Computer-Controlled Superfast Pulsed-Current Battery Charger ICS 10

- Computer-controlled charging process
- Maximum charging time 10 minutes
- Gentle and safe charging of batteries
- Suitable for all Metabo battery packs (4.8V-7.2V-9.6V-12V)
- Triples the useful life of the battery packs which now can be recharged up to 3000 times.
- Also serves as a tester for Metabo's battery packs.

1. Ready for use indicator

As soon as the charger is plugged in, the computer performs a system check and, if all is in order, a red LED lights to tell you that the ICS 10 is ready for use.

2. Faulty battery-pack indicator

If the battery pack that has been inserted in the ICS 10 is defective, a flashing red LED signals "defect".

3. Battery-pack temperature too high indicator

The battery pack is only charged for as long as its temperature is between 50°F and 115°F. If its temperature is above 115°F, a flashing red LED signals "too hot". If the battery pack is left in the charger, charging commences automatically as soon as the battery has cooled down.

4. Battery-pack temperature too low indicator

If the temperature of the battery pack is below 50°F, a flashing red LED signals "too cold". Charging commences automatically as soon as the temperature has risen to above 50°F.

5. Battery pack on-charge indicator

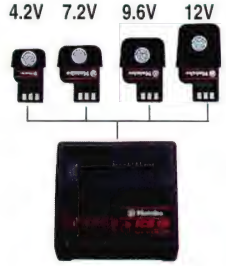
A flashing yellow LED indicates that pulsed-current charging is in progress. Within 20 milliseconds, the computer gathers and checks all the necessary data and, if all is in order, it enables charging to take place for a period of one second. It then makes another 20 millisecond check before enabling charging to continue for one second more.

This process of checking, charging and checking continues for as long as the battery pack is on charge. Shortly before charging is completed, a period of 30 seconds is allowed for balancing the energy stored in the various battery cells. This period allows for any differences to be compensated.

This process ensures that the battery pack is charged with an absolute minimum of stress so that it can be recharged up to 3000 times. Depending on the amount of energy remaining in the battery pack when it is inserted in the charger, charging takes between 30 seconds and 10 minutes.

6. Combined indicator for "battery charged" and "trickle charging"

A steady green light indicates when charging is completed. As this LED lights, the charger switches over to impulse trickle charging. The battery pack can be left in the charger without any risk of it being overcharged. The impulse-trickle-charging process keeps it always ready for use.



All Metabo battery packs can be charged in the ICS 10. The Charger automatically detects the voltage of the battery pack that has been inserted.

Depending on the residual energy still stored in the battery pack when it is inserted in the charger, charging takes between 30 seconds and 10 minutes

The integral computer monitors all functions of the ICS 10

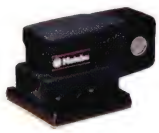
Metabo

Cordless Tools

	Cordless 9.6V Drill	Cordless 9.6V Drill / Driver	Cordless 12V Drill / Driver	Cordless 9.6V Hammer Drill
Model	**0096**	**0118**	**0126**	**0100**
	FET	FET	FET	FET
MASTERCHARGE® TOOL (ICS-10 superfast 10 minute battery charger)			●	
115V 1hour battery charger	●	●		●
Battery pack voltage	9.6V	9.6V	12V	9.6V
2-speed synchromesh gear-box. Speed can be changed while tool is running.	●	●	●	●
Electric brake	●	●	●	●
Reversing facility	●	●	●	●
Depot for on tool storage of screwdriver bits		●	●	●
On tool chuck key storage				●
FET electronic speed control for continuous variation of the speed	●	●	●	●
Impact mechanism with oil-hardened cam washers				●
Precision ground Metabo chuck	3/8" Keyless	3/8" Keyless	3/8" Keyless	3/8" Geared
Adjustable 6 position torque control		●	●	
U L Listed	●	●		●
Torque (maximum tightening in inch lbs.)	124 inch lbs.	124 inch lbs.	124 inch lbs.	106 inch lbs.
Capacity				
- in mild steel	**5/16"**	**5/16"**	**5/16"**	**5/16"**
- in concrete	**n/a**	**n/a**	**n/a**	**3/8"**
- in masonry and brick	**n/a**	**n/a**	**n/a**	**3/8"**
- in softwood	**5/8"**	**5/8"**	**5/8"**	**5/8"**
No-load speed (RPM)	**0-300/0-850**	**0-300/0-850**	**0-300/0-850**	**0-350/0-1000**
No-load (BPM)	**n/a**	**n/a**	**n/a**	**0-6300/0-18000**
Spindle thread	**1/2 x 20 UNF**	**1/2 x 20 UNF**	**1/2 x 20 UNF**	**1/2 x 20 UNF**
Chuck capacity	**3/8"**	**3/8"**	**3/8"**	**3/8"**
Tool weight	**4 LBS.**	**4.2 LBS.**	**4.5 LBS.**	**4.5 LBS.**
Shipping weight	**9 LBS.**	**10 LBS.**	**10 LBS.**	**10 LBS.**
Length	**10"**	**10"**	**10"**	**9 1/2"**
Optional carrying case	**31.419**	**31.419**	**31.419**	**31.419**
Standard Equipment:	Precision ground keyless chuck (36.500) 9.6V battery (30.762) 115V charger (31.107) Clamping bushing (31.281)	Precision ground Metabo keyless chuck (36.500) 9.6V battery (30.762) 115V charger (31.107) Clamping bushing (31.281)	Precison ground Metabo keyless chuck (36.500) 12V battery (31.116) ICS-10 *MASTERCHARGE* 10 minuet charger (31.102) Clamping bushing (31.281)	Precison ground Metabo geared chuck (35.252) Chuck key (35.167) 9.6V battery (30.762) 115V charger (31.107)
Available with 115V 1-hour charger			**Order #0128**	
Available with *Mastercharge 10 minute charger*	**Order # 0096-10**	**Order # 0118-10**		**Order # 0101**
Available without charger	**Order # 0097**	**Order # 0119**	**Order # 0127**	**Order # 0116**

CORDLESS TOOLS

NEW



	Cordless 12V Hammer Drill	9.6V Cordless Palm Sander	9.6V Cordless Jigsaw	9.6V Cordless Halogen Flashlight
	0121	**0060**	**EP140**	**HLA15**
	FET		FET, P	
	●			
		●	●	
	12V	9.6V	9.6V	(Not Included)
	●			
	●			
	●			
	●			
	●			
	●	●		
	●			
	3/8" Geared			
		●		
	106 inch lbs.	n/a	35 inch lbs.	n/a
	5/16" 3/8" 3/8" 5/8" 0-350/0-1000 0-6300/0-18000 1/2 x 20 UNF 3/8" 4.5 LBS. 10 LBS. 9 1/2" 31.419	Orbits per minute 11000 Sheet size 1/4 Pad size 4 1/2"x 4 1/2" Weight 2.8 LBS. Shipping weight 6 LBS. length 7" optional carrying case 23.999B Find an assortment of Cling-fit velcro sandpaper on page 46	Strokes per minute 700-2500 Stroke length 5/8" Capacity in: Wood 1 1/2" Mild steel 1/8" Non-ferrous metal 1/4" Weight 3.9 LBS. Shipping weight 9 LBS. length 10" optional carrying case 31.374	Halogen flashlight features : dimmer switch flood light spotlight flourescent lamp emergency kit
	Precison ground Metabo geared chuck (36.500) Chuck key (35.167) 12V battery (31.116) ICS - 10 *MASTERCHARGE* 10 minute charger (31.102) Clamping bushing (31.281)	9.6V battery (30.762) 115V charger (31.107) sample sand paper pack	9.6V battery (30.762) 115V charger (31.107) Anti-splinter insert (31.208) 3 Metabo blades Allen wrench	7.2V Battery (31.104) or 9.6V Battery (30.762) and charger are required to operate the HLA15 flashlight and must be purchased separately
	Order # 0110			**n/a**
		Order # 0060-10	**Order # EP 140-10**	**n/a**
	Order # 0123	**Order # 0061**	**Order # EP 141**	**n/a**

Cordless Tool Accessories

31.432 Leather Tool Holster

Keyless Chucks

Metabo keyless chucks are now standard equipment for all cordless drill- drivers. These sturdy chucks are especially handy on mobile tools such as cordless drills.

115V Universal Charger

31.067
31.107
31.163

1 hour quick charge
Automatically maintains trickle charge
Cannot overcharge battery
LED light display indicates charging and fully charged mode
31.067 accepts Metabo battery packs 4.8V,7.2V,9.6V
31.107 accepts all Metabo battery packs (including 12V)
31.163 accepts all Metabo battery packs and includes additional LED indicator lights displaying inadequate battery temperature and trickle charge mode

12/24V Universal Charger

31.391

1 hour quick-charge
Accepts all Metabo battery packs (including 12V)
Cannot overcharge battery pack
Designed and constructed to fit into a cigarette lighter on a boat, truck, or automobile

See MASTERCHARGE® info on page 17

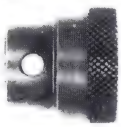
Metabo

Screw Drivers

Model	Screwdriver 4430	Screwdriver 4450	2-Speed Screwdriver 6345/2
Aluminum die-cast gear housing	●	●	●
2-speed gear-box			●
Dog clutch	●	●	●
Adjustable depth setting	●	●	●
Suitable for driving phillips bits	●	●	●
Suitable for driving sockets	●	●	●
Suitable for driving slotted head screws		●	●
Magnetic bit holder	●	●	●
Reversing facility	●	●	●
Metal belt clip	●	●	
Auto-stop carbon brushes	●	●	●
Winding protection grid			●
Electronic variable speed control	●	●	●
U L Listed			●
Torque (maximum tightening measured in inch lbs.)	84 inch lbs.	159 inch lbs.	159 inch lbs.
No-load speed (RPM)	**0-2500**	**0-1550**	**0-1600 / 0-2500**
Amps	**4.0**	**4.0**	**5.0**
Rated input watts	**380**	**380**	**400**
Spindle thread	**1/2 x 20 UNF**	**1/2 x 20 UNF**	**1/2 x 20 UNF**
Bit retainer	**1/4"**	**1/4"**	**1/4"**
Tool weight	**4.4 LBS.**	**5.2 LBS.**	**5.8 LBS.**
Shipping weight	**7 LBS.**	**7 LBS.**	**8 LBS.**
Length	**10"**	**11"**	**12"**
Optional carrying case	**55.077**	**55.077**	**55.077**
Standard Equipment:	Belt clip (34.220.027) Depth sleeve (30.561) Bit Holder (30.560) Phillips Bit #2 (55.102)	Belt clip (34.220.027) Depth sleeve (30.556) Thread protector cap (30.559) Phillips Bit #2 (55.102)	Side handle (31.400.054) Stop sleeve (30.162) Bit holder (30.560) Phillips Bit #2 (55.102)
	Handles up to #12 wood screws and 1/4" self-drilling screws	Handles up to #12 wood screws and 5/16" self-drilling screws	Handles up to #14 wood screws and 5/16" self-drilling screws

Metabo

Screw Driver Accessories

	Item #	Description	4430	4450	6345/2
	30.561	Depth sleeve for use with bit holder and insert bits	•		
	30.562	Depth sleeve for use with nutsetters	•		
	30.556	Depth sleeve (magnetic) to use with insert bits		•	
	30.557	Depth sleeve for use with insert bits		•	
	55.103	1/4" bit holder 7/16"x3" magnetic	•		•
	30.560	1/4" bit holder 7/16"x3" non-magnetic	•		•
	30.165	Depth sleeve for use with bit holder and insert bits			•
	30.162	Stop sleeve 5/16" for use with nutsetters			•
	30.163	Stop sleeve 3/8" for use with nutsetters			•
	30.164	Stop sleeve 7/16" for use with nutsetters			•
	30.559	Thread protector cap for using tool without depth sleeve	•	•	
	55.109	1/4" insert bit # 1 Phillips (limited clearance)	•	•	•
	55.110	1/4" insert bit # 2 Phillips (limited clearance)	•	•	•
	55.101	1/4" insert bit # 1 Phillips	•	•	•
	55.102	1/4" insert bit # 2 Phillips	•	•	•
	55.108	1/4" insert bit # 3 Phillips	•	•	•
	55.120	Nutsetter 1/4"x2 9/16" magnetic	•		•
	55.121	Nutsetter 5/16"x2 9/16" magnetic	•		•
	55.122	Nutsetter 3/8"x2 9/16" magnetic	•		•
	55.123	Nutsetter 1/4"x2 9/16" non-magnetic	•		•
	55.124	Nutsetter 5/16"x2 9/16" non-magnetic	•		•
	55.125	Nutsetter 3/8"x2 9/16" non-magnetic	•		•
	55.126	Nutsetter 1/4"x1 1/8" magnetic		•	
	55.127	Nutsetter 5/16"x1 1/8" magnetic		•	
	55.128	Nutsetter 3/8" x 1 1/8" magnetic		•	
	30.166	Depth setting sleeve for work in confined area			•

Metabo

Die Grinders

	2" Die Grinder	2" Die Grinder	Varable Speed Die Grinder
Model	**DG251**	**DG250**	**6145**
Extended spindle which allows working in to confined areas		●	●
High torque through the reduction gear			●
Auto-stop carbon brushes	●	●	●
Vario-constamatic (VC) electronic speed control and speed stabilization			●
U L Listed	●	●	●
Torque (maximum torque measured in inch lbs.)	6 inch lbs.	6 inch lbs.	18 inch lbs.
No-load speed (RPM)	27000	27000	1000-7000
Amps	5.2	5.2	4.4
Rated input watts	500	500	500
Collet bore	1/4"	1/4"	1/4"
Tool weight	3.7 LBS.	4.5 LBS.	5.3 LBS.
Shipping weight	7 LBS.	7 LBS.	9 LBS.
Length	9"	13"	14"
Optional carrying case	55.077	55.077	55.077
Standard Equipment:	Collet wrench (23.902) Spindle wrench (34.416.240) 1/4" collet (30.919) **Also suitable for occasional DC use**	Collet wrench (23.902) Spindle wrench (23.913) 1/4" collet (30.919) **Also suitable for occasional DC use**	Collet wrench (23.902) Spindle wrench (23.913) 1/4" collet (30.919) Side handle (31.052)

Die Grinder Accessories

30.980
Flex Shaft

4 ft. long, heavy-duty rubber covered flex shaft for use with both die grinder or router motor

Ball bearing construction

1/4" collet for 1/4" shank mounted bits

Speed range 7,500 to 30,000 RPM (Not for use on tools running less than 7,500 RPM)

55.169
Die Grinder Guard
(Use on 6145 die grinder)

Flap Wheels

Interleaved

Item No.	Dia. x Width x Shank	Grit	Max RPM
55.390	3" x 1" x 1/4"	80	18,000
55.391	3" x 1" x 1/4"	120	18,000
55.392	3" x 1" x 1/4"	180	18,000
55.393	3" x 2" x 1/4"	80	6,000
55.394	3" x 2" x 1/4"	120	6,000
55.395	3" x 2" x 1/4"	180	6,000

Non-woven

Item No.	Dia. x Width x Shank	Grit	Max RPM
55.380	2 3/8" x 1" x 1/4"	Fine	10,000
55.381	2 3/8" x 1" x 1/4"	Med	10,000
55.382	2 3/8" x 2" x 1/4"	Fine	8,000
55.383	2 3/8" x 2" x 1/4"	Med	8,000
55.384	3" x 1" x 1/4"	Fine	8,000
55.385	3" x 1" x 1/4"	Med	8,000
55.386	3" x 2" x 1/4"	Fine	6,000
55.387	3" x 2" x 1/4"	Med	6,000

Interleaved & Non-woven mounted flap wheels for use with 6145 Die Grinder.

Metabo

Angle Grinders

Metabo is famous for its full line of angle grinders.

Offering grinders from 4 1/2" to 9" in capacity, Metabo is also known for providing unusual tools such as a 6" grinder, variable speed grinder and variable speed polisher to handle difficult or unusual applications.

In addition to their rugged construction, Metabo grinders will remove stock faster. This is made possible by designing high quality armatures, precision ground hardened steel gearing, and speed enhancing electronic components for extremely efficient transfer of power to the spindle.

METABO 6" Angle Grinder Model 1115

THERMAL SENSOR MONITORS WINDING TEMPERATURE AND AUTOMATICALLY SHUTS DOWN TOOL IF OVERLOAD OCCURS

EXTRA LARGE FAN AND *WINDING PROTECTION GRID SYSTEM* PROTECTS ARMATURE WINDINGS FROM EXCESSIVE TEMPERATURES AND HARMFUL AIR BORNE DEBRIS

LED DISPLAY

SPINDLE LOCK AND LOW PROFILE FRONT END

HEAVY-DUTY POWER CORD WITH STRAIN RELEIF

AUTO-STOP BRUSHES PROTECT MOTOR AND ARE EASILY REPLACED

WHEEL GUARD AND REVERSIBLE SIDE HANDLE

STURDY POLYMER-RESIN MOTOR HOUSING AND METAL GEAR HOUSING FOR ADDED *DURABILITY*

UNBEATABLE POWER TO WEIGHT RATIO

FOR THE FASTEST CUTTING TOOL SYSTEM AVAILABLE BE SURE TO TRY THE METABO 1115 ANGLE GRINDER WITH METABO THIN CUT "SLICER" WHEELS

UNIQUE *SLIP CLUTCH* PROTECTS BOTH TOOL AND OPERATOR FROM SUDDEN BINDING BY MOMENTARILY ABSORBING SUDDEN SHOCK.

TACHO-CONSTAMATIC SPEED CONTROL PROVIDES FULL RPM EVEN UNDER FULL LOAD CONDITIONS

Metabo

Angle Grinders

	4 1/2" Angle Grinder	4 1/2" Angle Grinder	Electronic 4 1/2" Angle Grinder Variable Speed
Model	**AG555SL**	**AG650SL / 7115**	**AG650VS**
Grinding Wheel maximum diameter	4 1/2"	4 1/2"	4 1/2"
Spindle lock	●	●	●
Low profile gear housing		●	●
Variable speed controlled by adjusting dial			●
Aluminum die-cast gear housing	●	●	●
High performance spiral bevel gears	●	●	●
Wheel guard with locking device to prevent guard from slipping off gear-box flange	●	●	●
Electronic winding temperature monitor with LED display			
Metabo slip clutch	●	●	●
Auto-stop carbon brushes	●	●	●
Winding protection grid	●	●	●
Electric gentle start feature			
Electronic speed stabilizer			●
U L Listed	●	●	
Torque (maximum torque measured in inch lbs.)	16 inch lbs.	18 inch lbs.	18 inch lbs.
Maximum wheel diameter	**4 1/2"**	**4 1/2"**	**4 1/2"**
No-load speed (RPM)	**10000**	**10000**	**1700 - 8500**
Amps	**5.5**	**6.4**	**6.4**
Rated input watts	**650**	**710**	**710**
Arbor size	**7/8"**	**7/8"**	**7/8"**
Spindle thread	**5/8"-11**	**5/8"-11(AG650SL) M14 (7115)**	**5/8"-11**
Tool weight	**5.4 LBS.**	**5.6 LBS.**	**5.5 LBS.**
Shipping weight	**8 LBS.**	**9 LBS.**	**9 LBS.**
Length	**11"**	**12"**	**12"**
Optional carrying case	**23.999B**	**23.999B**	**23.999B**
Standard Equipment:	Side Handle (31.400.054) Wheel Guard (31.601.254) Flange Nuts (34.110.148) Face Spanner (23.934) Grinding Wheel (16.726)	Side Handle (31.400.054) Wheel Guard (31.601.254) Flange Nuts AG650SL (34.110.148) 7115 (30.706) Face Spanner (23.934) Grinding Wheel (16.726)	Side Handle (31.400.054) Wheel Guard (31.601.254) Flange Nuts (34.110.148) Face Spanner (23.934) Grinding Wheel (16.726)
	Also suitable for occasional DC use	**Also suitable for occasional DC use**	

Metabo

SUPER MINI GRINDERS

	5" Angle Grinder	5" Angle Grinder	Electronic 5" Angle Grinder	Electronic 4 1/2" / 5" Angle Grinder	Electronic 6" Angle Grinder
	7126	8125	9123	11125	1115
	5"	5"	5"	4 1/2" / 5"	6"
	●	●	●	●	●
	●	●	●	●	●
	●	●	●	●	●
	●	●	●	●	●
	●	●	●	●	●
				●	●
	●	●	●	●	●
	●	●	●	●	●
	●	●	●	●	●
			●	●	●
			●	●	●
		●	●	●	●
	22 inch lbs.	26.5 inch lbs.	20 inch lbs.	27 inch lbs.	31 inch lbs.
	5"	**5"**	**5"**	**5"**	**6"**
	8500	**8500**	**10000**	**10000**	**8500**
	6.4	**7.0**	**7.5**	**9.0**	**9.0**
	710	**800**	**900**	**1100**	**1100**
	7/8"	**7/8"**	**7/8"**	**7/8"**	**7/8"**
	5/8"-11	**5/8"-11**	**5/8"-11**	**5/8"-11**	**5/8"-11**
	5.5 LBS.	**5.8 LBS.**	**5.4 LBS.**	**5.9 LBS.**	**6.2 LBS.**
	9 LBS.	**9 LBS.**	**9 LBS.**	**9 LBS.**	**10 LBS.**
	12"	**12"**	**12"**	**12"**	**12"**
	23.999B	**23.999B**	**23.999B**	**23.999B**	**31.397**
	Side Handle (31.400.054) Wheel Guard (31.601.254) Flange Nuts (34.110.148) Face Spanner (23.934) Grinding Wheel (16.730)	Side Handle (31.400.054) Wheel Guard (31.601.254) Flange Nuts (34.110.148) Face Spanner (23.934) Grinding Wheel (16.730)	Side Handle (31.400.054) Wheel Guard (31.601.254) Flange Nuts (34.110.148) Face Spanner (23.934) Grinding Wheel (16.730)	Side Handle (31.400.054) Wheel Guard (31.601.254) Flange Nuts (34.110.148) Face Spanner (23.934) Grinding Wheel (16.730)	Side Handle (31.400.054) Wheel Guard (31.601.933) Flange Nuts (34.110.148) Face Spanner (23.934) Grinding Wheel (16.554)
	Also suitable for occasional DC use	**Also suitable for occasional DC use**			

Metabo

Angle Grinders

Angle Sanders

NEW

Model	7" Angle Grinder 2118G	9" Angle Grinder 2123G	9" Angle Grinder W25230
	□	□	□
Maximum wheel or disc diameter	7"	9"	9"
Spindle lock	●	●	●
2 position side handle	●	●	●
Axial cooling air outlet	●	●	●
Aluminum die-cast gear housing	●	●	●
High performance spiral bevel gears	●	●	●
Safety lock to prevent the accidental switching on of the tool	●	●	●
Variable speed controlled by adjusting dial			
3 wire grounded plug			
Auto-stop carbon brushes	●	●	●
U L LIsted	●	●	
Torque (maximum torque measured in inch lbs.)	88.5 inch lbs.	106 inch lbs.	124 inch lbs.
Maximum wheel diameter	7"	9"	9"
No-load speed (RPM)	8500	6500	6600
Amps	15	15	21
Rated input watts	2000	2000	2300
Arbor size	7/8"	7/8"	7/8"
Spindle thread	5/8"-11	5/8"-11	5/8"-11
Tool weight	(2118G) 13.9 LBS. (2118) 13.2LBS.	(2123G) 14.1 LBS. (2123)13.2 LBS.	17.4 LBS.
Shipping weight	(2118G) 18 LBS. (2118) 17LBS.	(2123G) 18 LBS. (2123) 17 LBS.	20 LBS.
Length	18 1/2"	18 1/2"	19"
Optional carrying case	23.873	23.873	23.873
Standard Equipment:	Side Handle (31.400.028) Wheel Guard (55.170) (2118G only)	Side Handle (31.400.028) Wheel Guard (55.171) (2123G only)	Side Handle (31.400.028) Wheel Guard (55.171)
	Also suitable for occasional DC use	**Also suitable for occasional DC use**	**Also suitable for occasional DC use**
	Available as an angle sander without guard as Cat. No. 2118	**Available as an angle sander without guard as Cat. No. 2123**	

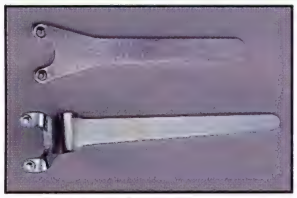
Metabo

Polishers

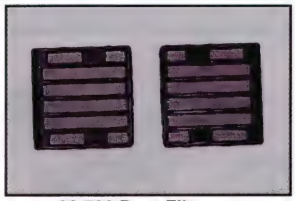
Cut-off Machine

	7"/ 9" Angle Sander	7" Polisher	7" Polisher Variable Speed	12" Cut-off Machine
	2020	P500	P500VS	AG2330
	☐	☐ ●	☐ ● VC	
	7" / 9"	7"	7"	12"
	●			●
	●	●	●	Loop Handle
	●	●	●	●
	●	●	●	●
	●	●	●	●
	●			●
			●	
				●
	●	●	●	●
		●	●	
	106 inch lbs.	18 inch lbs.	18 inch lbs.	159 inch lbs.
	9" **6000** **15.0** **1900** **7/8"** **5/8"-11** **13.2 LBS.** **20 LBS.** **18 1/2"** **23.873** Side Handle (31.400.028) **Also suitable for occasional DC use** **Requires optional wheel guard to be used as an angle grinder:** **7" guard 55.170** **9" guard 55.171**	**7"** **2200** **5.2** **550** **7/8"** **5/8"-11** **5.0 LBS.** **8 LBS.** **11 1/2"** **23.999B** Side Handle (31.400.054) Spindle Extension (34.151.305) Extension Wrench (23.902) Spindle Wrench (23.908) Hand Guard (30.332) **Also suitable for occasional DC use** **shown with optional backing pad (55.130) and polishing bonnet (55.131)**	**7"** **500 - 2200** **5.2** **550** **7/8"** **5/8"-11** **5.0 LBS.** **8 LBS.** **11 1/2"** **23.999B** Side Handle (31.400.054) Spindle Extension (34.151.305) Extension Wrench (23.902) Spindle Wrench (23.908) Hand Guard (30.332) **shown with optional backing pad (55.130) and polishing bonnet (55.131)**	**12"** **5000** **21.0** **2300** **1"** **5/8"-11** **27.4 LBS.** **36 LBS.** **19"** **23.764** **(Depth of cut) 3 5/8"** Loop Handle (34.111.115) Wheel Guard with Shoe Assembly (31.601.839) Handle Bolts (14.111.039) Open End Wrench (34.416.041) **Also suitable for occasional DC use** **NOTE: AG2330 is not to be used with circular saw type blades.**

Grinding Accessories



23.934 Straight Spanner
23.910 Offset Spanner



30.732 Dust Filters

31.075 Anti-fogging safety glasses
31.159 Replacement lens

30.890 Shop Apron

	7115	AG555SL AG650SL AG650VS	8125 7126	9123 11125	1115	2020	2118 / 2118G	2123 / 2123G	W25230	AG 2330	P500/ P500VS	DG 250	DG 251	6145
31.400.054 Side Handle	S	S	S	S	S						S			
31.400.028 Side Handle						S	S	S	S					
31.052 Side Handle												O		S
14.111.039 Loop Handle Bolts						O	O	O	O	S				
34.111.115 Loop Handle						O	O	O	O	S				
23.908 Open-end wrench	O	O	O	O	O	O	O	O	O		S			
23.934 Straight Spanner	S	S	S	S	S									
23.910 Offset Spanner	O	O	O	O	O									
34.416.041 Spindle Wrench										S				
34.105.039 Spindle Wrench												S		
34.416.240 Spindel Wrench													S	
23.913 Spindle Wrench														S
23.902 Collet Wrench												S	S	S
55.039 Wheel Mounting Kit						O	O	O	O					
55.502 Replacement Nut (55.039)						O	O	O	O					
30.706 M14 Flange Nut	S													
34.110.148 5/8"-11 Fange Nut		S	S	S	S									
55.170 7" Wheel Guard							o/s							
55.171 9" Wheel Guard								o/s	S					
23.276 3 1/8" Cup Wheel Guard	O	O	O	O	O									
23.142 4" Cup Wheel Guard						O	O	O	O					
23.279 M14 4 1/2" Backing Pad	O													
23.283 5/8"-11 4 1/2" Backing Pad		O		O										
23.284 5/8"-11 5" Backing Pad			O	O	O									
23.281 5/8"-11 7" Backing Pad					O	O	O	O	O					
23.282 5/8"-11 9" Backing Pad								O	O					
55.130 5/8"-11 7" Rubber Pad											O			
55.131 Polishing Bonnet											O			
30.921 1/8" Collet												O	O	O
30.332 Hand Guard						O	O	O	O		S			
30.732 Dust Filters						O	O	O	O	O				
55.169 Die Grinder Guard														O
31.165 Tuck Point Guard	O	O	O	O	O									
30.890 Shop Apron														
31.075 Anti-fogging safety goggles														

S — Standard Equipment
O — Optional Equipment

Abrasives

Metabo, one of the world's leading manufacturer of both power tools and abrasives, engineers its grinding wheels to the same exacting quality standards as its world recognized tools.

Metabo tests its grinding and cut-off wheels and cup grinding wheels to meet the rigorous grinding and cutting requirements of professional users. Throughout the manufacturing process, raw materials as well as finished products are checked and inspected for quality and safety. The result is high quality, high performance products that minimize working time and maximize performance, operator safety and useful life.

Label Identification

Each Metabo wheel label is color coded for its specific application as follows:

Label Color	Application
Blue	Steel and Stainless Steel
Green	Stone, Non-ferrous metals, Plastics, Asbestos, Marble, Concrete and Ductile Iron
Gold	Pipe Line Grinding
Silver	Aluminum

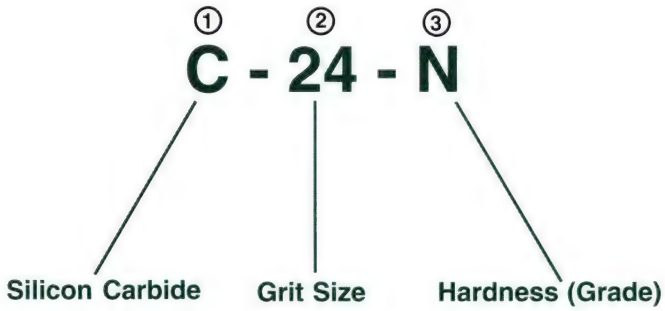
Metabo wheels are marked with the standard marking system consisting of three letters and numbers. Position Number 1 at left is a letter designating the kind of abrasive used in the wheel:

A. Aluminum Oxide C. Silicon Carbide ZA. Zirconium Alumina

Position Number 2 is an industry standard number denoting grit size from 6 to 600, course to fine.

Position Number 3 is a letter designation indicating the grade of the wheel from A to Z., soft to hard. Letter grades are calibrations of hardness as applied to each individual wheel manufacturer's own formulation, and are relative within that manufacturer's wheel line. Grade designations may or may not be comparable from one company to another.

Metabo grinding wheels comply with the Grinding Wheel Institute self certification program and are manufactured in accordance with all ANSI (American National Standards Institute) B7.1 standards.



Metabo grinding and cut-off wheels are manufactured in thicknesses from 1/8" to 3/8". 1/4" wheels are triple layer reinforced with fiberglass, while thinner wheels are double layer reinforced, and 3/8" wheels have four layers of fiberglass reinforcing.

Each wheel's thickness is custom matched to its specific application.

Metabo

Type 27 Grinding Wheels

Grinding Wheels - Type 27

A24N - Aluminum oxide general purpose wheel for grinding steel and other ferrous metals in normal working conditions. High stock removal.
A24R - Aluminum oxide general purpose wheels for heavier working conditions. Use for steel and other ferrous metals. Longer wheel life and good stock removal.
A24T - Aluminum oxide general purpose wheel with extremely long life for grinding steel and other ferrous metals.
A36O - Aluminum oxide wheel specially formulated for harder metals such as stainless steel. Good stock removal.
C24N - Silicon carbide general purpose wheel for stone, concrete, ductile iron, masonry materials, non-ferrous metals (brass, bronze, etc.), and cast iron. High stock removal.
C24alu/A36alu - Specially formulated for non-loading grinding of aluminum.
ZA24Q - Zirconium alumina wheels offer very aggressive stock removal and extremely long wheel life. Suitable for steel and stainless steel grinding applications.

Grinding Wheels (Type 27) for Smaller Air Grinders

Cat.No.	Size	Spec.	Application	Max RPM	Pcs/Box
16.322	3"x1/4"x3/8"	A24N	Steel	20,500	25
16.325	3"x1/4"x3/8"	A36O	St. Steel	20,500	25
16.326	3"x1/4"x3/8"	A36alu	Aluminum	20,500	25

Metabo X-tra Thick Grinding Wheels (Type 27) for Heavy-duty Air and Electric Grinders

Cat.No.	Size	Spec.	Application	Max RPM	Pcs/Box
16.286	7"x3/8"x7/8"	A24R	Steel	8,500	10
55.286	7"x3/8"x5/8"-11	A24R	Steel	8.500	10
16.288	9"x3/8"x7/8"	A24R	Steel	6,600	10
55.288	9"x3/8"x5/8"-11	A24R	Steel	6,600	10

Grinding Wheels (Type 27) for Smaller Air and Electric Grinders

Cat.No.	Size	Spec.	Application	Max RPM	Pcs/Box
16.745	4"x1/4"x5/8"	A24R	Steel	15,300	25
16.746	4"x1/4"x5/8"	C24N	Masonry	15,300	25
16.726	4 1/2"x1/4"x7/8"	A24N	Steel	13,300	25
55.726	4 1/2"x1/4"x5/8"-11	A24N	Steel	13,300	10
16.307	4 1/2"x1/4"x7/8"	A24R	Steel	13,300	25
55.307	4 1/2"x1/4"x5/8"-11	A24R	Steel	13,300	10
16.275	4 1/2"x1/4"x7/8"	A24T	Steel	13,300	25
55.275	4 1/2"x1/4"x5/8"-11	A24T	Steel	13,300	10
16.785	4 1/2"x1/4"x7/8"	ZA24Q	Steel/St. Steel	13,300	25
55.785	4 1/2"x1/4"x5/8"-11	ZA24Q	Steel/St. Steel	13,300	10
16.729	4 1/2"x1/4"x7/8"	C24N	Masonry	13,300	25
16.739	4 1/2"x1/4"x7/8"	A36O	St. Steel	13,300	25
16.740	4 1/2"x3/32"x7/8"	A36R	Steel	13,300	25
16.748	4 1/2"x1/4"x7/8"	C24alu	Aluminum	13,300	25
16.730	5"x1/4"x7/8"	A24N	Steel	12,300	25
55.730	5"x1/4"x5/8"-11	A24N	Steel	12,300	10
16.308	5"x1/4"x7/8"	A24R	Steel	12,300	25
55.308	5"x1/4"x5/8"-11	A24R	Steel	12,300	10
16.276	5"x1/4"x7/8"	A24T	Steel	12,300	25
55.276	5"x1/4"x5/8"-11	A24T	Steel	12,300	10
16.731	5"x1/4"x7/8"	C24N	Masonry	12,300	25
16.747	5"x1/4"x7/8"	A36O	St. Steel	12,300	25
16.749	5"x1/4"x7/8"	C24alu	Aluminum	12,300	25
16.554	6"x1/4"x7/8"	A24N	Steel	10,200	25
55.544	6"x1/4"x5/8"-11	A24N	Steel	10,200	10
16.319	6"x1/4"x7/8"	A24R	Steel	10,200	25
55.319	6"x1/4"x5/8"-11	A24R	Steel	10,200	10
16.654	6"x1/4"x7/8"	C24N	Masonry	10,200	25
16.604	6"x1/4"x7/8"	A36O	St. Steel	10,200	25
16.754	6"x1/4"x7/8"	A36alu	Aluminum	10,200	25

Grinding Wheels (Type 27) for Larger Air and Electric Grinders

Cat.No.	Size	Spec.	Application	Max RPM	Pcs/Box
16.560	7"x1/4"x7/8"	A24N	Steel	8,500	25
55.560	7"x1/4"X5/8"-11	A24N	Steel	8,500	25
16.782	7"x1/4"x7/8"	A24R	Steel	8,500	25
55.782	7"x1/4"x5/8"-11	A24R	Steel	8,500	25
16.277	7"x1/4"x7/8"	A24T	Steel	8,500	25
55.277	7"x1/4"x5/8"-11	A24T	Steel	8,500	25
16.788	7"x1/4"x7/8"	ZA24Q	Steel/St.Steel	8,500	25
55.788	7"x1/4"x5/8"-11	ZA24Q	Steel/St.Steel	8,500	10
16.660	7"x1/4"x7/8"	C24N	Masonry	8,500	25
55.660	7"x1/4"x5/8"-11	C24N	Masonry	8,500	25
16.610	7"x1/4"x7/8"	A36O	St. Steel	8,500	25
55.610	7"x1/4"x5/8"-11	A36O	St. Steel	8,500	25
16.760	7"x1/4"x7/8"	A36alu	Aluminum	8,500	25
55.760	7"x1/4"x5/8"-11	A36alu	Aluminum	8,500	25
16.572	9"x1/4"x7/8"	A24N	Steel	6,600	25
55.572	9"x1/4"x5/8"-11	A24N	Steel	6,600	25
16.784	9"x1/4"x7/8"	A24R	Steel	6,600	25
55.784	9"x1/4"x5/8"-11	A24R	Steel	6,600	25
16.279	9"x1/4"x7/8"	A24T	Steel	6,600	25
55.279	9"x1/4"x5/8"-11	A24T	Steel	6,600	25
16.672	9"x 1/4"x7/8"	C24N	Masonry	6,600	25
55.672	9"x1/4"x5/8"-11	C24N	Masonry	6,600	25
16.622	9"x1/4"x7/8"	A36O	St. Steel	6,600	25
55.622	9"x1/4"x5/8"-11	A36O	St. Steel	6,600	25

Metabo

Type 27 Cut-off Wheels

Cut-off Wheels (Type 27)

A24T - Aluminum oxide general purpose wheel with extremely long life for cutting steel and other ferrous metals.
A30O - Aluminum oxide wheel specially formulated for harder metals such as stainless steel. Good cutting rate and wheel life.
A30S - Aluminum oxide general purpose wheel for cutting steel and other ferrous metals. Good cutting rate and wheel life.
C30S- Silicon carbide general purpose wheel for cutting stone, concrete, ductile iron, masonry materials, non-ferrous metals (brass, bronze, etc.), and cast iron. Good wheel life.

Cut-off Wheels (Type 27) for Smaller Air and Electric Grinders

Cat.No	Size	Spec.	Application	Max RPM	Pcs/Box
16.305	4"x1/8"x5/8"	A30S	Steel	15,300	25
16.306	4"x1/8"x5/8"	C30S	Masonry	15,300	25
16.727	4 1/2"x1/8"x7/8"	A30S	Steel	13,300	25
16.728	4 1/2"x1/8"x7/8"	C30S	Masonry	13,300	25
16.737	4 1/2"x1/8"x7/8"	A30O	St. Steel	13,300	25
16.310	5"x1/8"x7/8"	A30S	Steel	12,300	25
16.312	5"x1/8"x7/8"	C30S	Masonry	12,300	25
16.311	5"x1/8"x7/8"	A30O	St. Steel	12,300	25
16.313	6"x1/8"x7/8"	A30S	Steel	10,200	25
16.315	6"x1/8"x7/8"	C30S	Masonry	10,200	25
16.314	6"x1/8"x7/8"	A30O	St. Steel	10,200	25

Cut-off Wheels (Type 27) for Larger Air and Electric Grinders

Cat.No	Size	Spec.	Application	Max RPM	Pcs/Box
16.300	7"x1/8"x7/8"	A30S	Steel	8,500	25
55.300	7"x1/8"x5/8"-11	A30S	Steel	8,500	25
16.301	7"x1/8"x7/8"	C30S	Masonry	8,500	25
55.301	7"x1/8"x5/8"-11	C30S	Masonry	8,500	25
16.299	7"x1/8"x7/8"	A30O	St. Steel	8,500	25
55.299	7"x1/8"x5/8"-11	A30O	St. Steel	8,500	25
16.302	9"x1/8"x7/8"-	A30S	Steel	6,600	25
55.302	9"x1/8"x5/8"-11	A30S	Steel	6,600	25
16.303	9"x1/8"x7/8"	C30S	Masonry	6,600	25
55.303	9"x1/8"x5/8"-11	C30S	Masonry	6,600	25

Pipe Line Wheels (Type 27) for Air and Electric Grinders

Cat.No.	Size	Spec.	Application	Max RPM	Pcs/Box
16.281	4 1/2"x1/8"x7/8"	A24T	Steel	13,300	25
55.281	4 1/2"x1/8"x5/8"-11	A24T	Steel	13,300	10
16.282	7"x1/8"x7/8"	A24T	Steel	8,500	25
55.282	7"x1/8"x5/8"-11	A24T	Steel	8,500	25
16.284	9"x1/8"x7/8"	A24T	Steel	6,600	25
55.284	9x1/8"x5/8"-11	A24T	Steel	6,600	25

SAFETY NOTE: Never use wheels or other accessories rated lower than the no-load RPM of the grinder. Eye protection is required.

Type 1 Cut-off Wheels

Type 1 Cut-off Wheels

A24M - Aluminum oxide wheel specially formulated for use in mitre-type chop saws for cutting steel and other ferrous metals. High cutting rate. Good wheel life.
A24N - Aluminum oxide general purpose wheel for cutting steel and other ferrous metals. High cutting rate. Good wheel life.
A30O - Aluminum oxide wheel specially formulated for harder metals such as stainless steel. Good cutting rate and wheel life.
A30R - Aluminum oxide general purpose wheel for cutting steel and other ferrous metals. Good cutting rate and wheel life.
A30S - Aluminum oxide general purpose wheel for cutting steel and other ferrous metals. Good cutting rate and wheel life.
C24N- Silicon carbide general purpose wheel for cutting stone, concrete, ductile iron, masonry materials, non-ferrous metals (brass, bronze, etc.), and cast iron. High stock removal.
C30S- Silicon carbide general purpose wheel for cutting stone, concrete, ductile iron, masonry materials, non-ferrous metals (brass, bronze, etc.), and cast iron. Good cutting rate. Good wheel life.

Cut-off Wheels (Type 1) for Smaller Air and Electric Grinders

Cat.No	Size	Spec.	Application	Max RPM	Pcs/Box
16.321	3"x1/8"x3/8"	A30S	Steel	20,500	25
16.323	3"x1/8"x3/8"	A30O	St. Steel	20,500	25
16.324	3"x1/8"x3/8"-	A30alu	Aluminum	20,500	25
16.732	5"x1/8"x7/8"	A30S	Steel	12,300	25
16.738	5"x1/8"x7/8"	A30O	St. Steel	12,300	25

Cut-off Wheels (Type 1) for Portable Saws

Cat.No.	Size	Spec.	Application	Max RPM	Pcs/Box
16.331	6"x1/8"x5/8"	A30S	Steel	10,200	25
16.332	6"x1/8"x5/8"	C30S	Masonry	10,200	25
16.333	7"x1/8"x5/8"	A30S	Steel	8,600	25
16.334	7"x1/8"x5/8"	C30S	Masonry	8,600	25
16.335	8"x1/8"x5/8"-	A30S	Steel	7,600	25
16.336	8"x1/8"x5/8"	C30S	Masonry	7,600	25

Cut-off Wheels (Type 1) for Chop Saws

Cat.No.	Size	Spec.	Application	Max RPM	Pcs/Box
16.337	12"x3/32"x1"	A30R	Steel	5,100	10
16.338	14"x7/64"x1"	A30R	Steel	4,300	10
16.340	14"x7/64"x1"	A24M	Steel	4,300	10

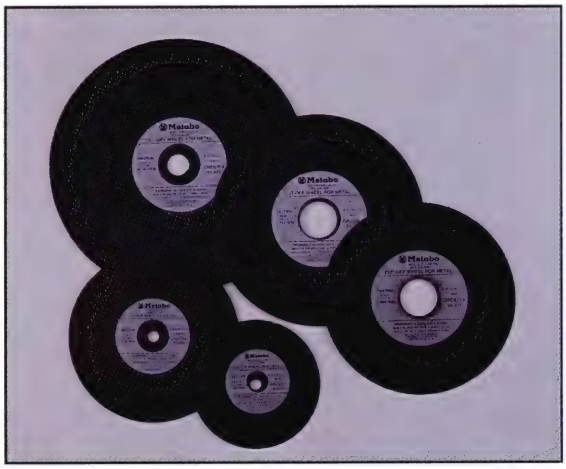
Cut-off Wheels (Type 1) for Gas and Electric Cut-off Saws

Cat.No.	Size	Spec.	Application	Max RPM	Pcs/Box
16.136	12"x1/8"x20mm	A24N	Steel	6,400	10
16.137	12"x1/8"x1"	A24N	Steel	6,400	10
16.156	12"x1/8"x20mm	C24N	Masonry	6,400	10
16.157	12"x1/8"x1"	C24N	Masonry	6,400	10
16.139	14"x1/8"x1"	A24N	Steel	5,400	10
16.140	14"x1/8"x20mm	A24N	Steel	5,400	10
16.159	14"x1/8"x1"	C24N	Masonry	5,400	10
16.160	14"x1/8"x20mm	C24N	Masonry	5,400	10

Cut-off Wheels (Type 1) for Larger Cut-off Machines

Cat.No.	Size	Spec.	Application	Max RPM	Pcs/Box
16.204	16"x5/32"x1"	A30S	Steel	4,700	10
16.214	16"x5/32"x1"	C30S	Masonry	4,700	10

Type 1 - Thin Cut Wheels



Thin-cut *"SLICER"* Wheels - Type 1

Item No.	Size	Grade	Max RPM
55.316	3 x .040 x 1/4	A60T	25,000
55.317	3 x .040 x 3/8	A60T	25,000
55.318	3 x 1/16 x 1/4	A36T	25,000
55.358	3 x 1/16 x 1/4	A60T	25,000
55.320	3 x 1/16 x 3/8	A36T	25,000
55.321	3 x 1/16 x 3/8	A60T	25,000
55.322	4 x .040 x 1/4	A60T	19,000
55.323	4 x .040 x 3/8	A60T	19,000
55.324	4 x .040 x 5/8	A60T	19,000
55.325	4 x 1/16 x 1/4	A36T	19,000
55.326	4 x 1/16 x 1/4	A60T	19,000
55.327	4 x 1/16 x 3/8	A36T	19,000
55.328	4 x 1/16 x 3/8	A60T	19,000
55.329	4 x 1/16 x 5/8	A36T	19,000
55.330	4 x 1/16 x 5/8	A60T	19,000
55.331	4 1/2 x .040 x 7/8	A60T	15,000
55.332	4 1/2 x 1/16 x 7/8	A36T	15,000
55.333	4 1/2 x 1/16 x 7/8	A60T	15,000
55.334	5 x .040 x 7/8	A60T	12,223
55.335	5 x 1/16 x 7/8	A36T	12,223
55.336	5 x 1/16 x 7/8	A60T	12,223
55.337	6 x .040 x 1/2	A60T	10,186
55.338	6 x .040 x 5/8	A60T	10,186
55.339	6 x .040 x 7/8	A60T	10,186
55.340	6 x 1/16 x 1/2	A36T	10,186
55.341	6 x 1/16 x 1/2	A60T	10,186
55.342	6 x 1/16 x 5/8	A36T	10,186
55.343	6 x 1/16 x 5/8	A60T	10,186
55.344	6 x 1/16 x 7/8	A36T	10,186
55.345	6 x 1/16 x 7/8	A60T	10,186
55.168	Combo Mandrel 1/4 x1/4 and 3/8		

Be sure to try Metabo Thin-cut *"SLICER"* Wheels with a Metabo Angle Grinder for the Ultimate Cutting System

Type 6 &11 - Cup Wheels

Cup Wheels - Types 6 & 11

A16Q - Aluminum oxide general purpose wheel for grinding steel and other ferrous metals. High stock removal. Good wheel life.
C16N- Silicon carbide general purpose wheel for grinding stone, concrete, ductile iron, masonry materials, non-ferrous metals (brass, bronze, etc.), and cast iron. High stock removal. Good wheel life.
A80M - Aluminum oxide general purpose wheel for grinding steel and other ferrous metals. Good cutting rate and wheel life.
C16N- Silicon carbide general purpose wheel for grinding stone, concrete, ductile iron, masonry materials, non-ferrous metals (brass, bronze, etc.), and cast iron. Good stock removal. Good wheel life.

Cup Wheels (Type 6) for Smaller Air and Electric Grinders

Cat.No.	Size	Spec.	Application	Max RPM	Pcs/Box
29.174	3 1/8"x7/8"x7/8"	A80M	Steel	10,750	1
29.175	3 1/8"x7/8"x7/8"	C30N	Masonry	10,750	1

Cup Wheels (Type 11) for Larger Air and Electric Grinders

Cat.No.	Size	Spec.	Application	Max RPM	Pcs/Box
16.341	4"x3"x2"x5/8"-11	A16Q	Steel	9,000	10
16.342	4"x3"x2"x5/8"-11	C16N	Masonry	9,000	10
16.343*	5"x4"x2"x5/8"-11	A16Q	Steel	7,200	10
16.344*	5"x4"x2"x5/8"-11	C16N	Masonry	7,200	10
16.345*	6"x4 3/4"x2"x5/8"-11	A16Q	Steel	6,000	10
16.346*	6"x4 3/4"x2"x5/8"-11	C16N	Masonry	6,000	10

Always use a cup wheel guard while grinding with a cup wheel

***Available with steel safety back. Add SB to end of Cat. No.**

Type 29 - "Z" Wheels

The "Z" wheel ia a semi-flexible grinding and blending wheel for right angle grinders. It provides excellent grinding and finishing capabilities in one wheel. It flexes to follow contour surfaces and removes material smoothly with no gouging or loading. For use on all ferrous metals, non-ferrous metals, and plastics. Choose A24 or A36 for faster stock removal and a smooth finish. Choose A60 or A100 for good stock removal and an even smoother finish.

Note: For proper performance the appropriate, specially designed "Z" wheel backing pad must be used.

"Z" Wheel - Type 29 for Smaller Air & Electric Grinders

Cat.No.	Size	Spec.	Application	Max RPM	Pcs/Box
55.085	4 1/2"x5/32"x7/8"	A36	Steel/ Plastic	13,280	50
55.086	4 1/2"x5/32"x7/8"	A60	Steel/ Plastic	13,280	50
55.087	4 1/2"x5/32"x7/8"	A100	Steel/ Plastic	13,280	50

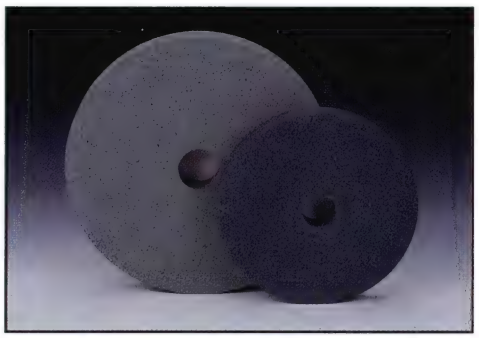
"Z" Wheel - Type 29 for Larger Air & Electric Grinders

Cat.No.	Size	Spec.	Application	Max RPM	Pcs/Box
55.088	7"x5/32"x7/8"	A24	Steel/ Plastic	8,600	50
55.083	7"x5/32"x7/8"	A36	Steel/ Plastic	8,600	50
55.084	7"x5/32"x7/8"	A60	Steel/ Plastic	8,600	50
55.089	7"x5/32"x7/8"	A100	Steel/ Plastic	8,600	50

"Z" Wheel Backing Pads with Nut

55.095	4 1/2" "Z" Wheel Backing Pad w/M14 Nut
55.091	4 1/2" "Z" Wheel Backing Pad w/5/8-11 Nut
55.092	7" "Z" Wheel Backing Pad w/5/8-11 Nut
55.094	M14 "Z" Wheel Backing Pad Nut
55.093	5/8"-11 "Z" Wheel Backing Pad Nut

Vitrified Wheels



Vitrified Wheels for Bench Grinders

Aluminum Oxide

Item No.	Wheel Size	Grit	Max RPM	Pcs. / box
55.401	6" x 3/4" x 1"	36	4,140	10
55.402	6" x 3/4" x 1"	60	4,140	10
55.403	6" x 3/4" x 1"	80	4,140	10
55.405	6" x 1" x 1"	24	4,140	10
55.406	6" x 1" x 1"	36	4,140	10
55.407	6" x 1" x 1"	60	4,140	10
55.408	6" x 1" x 1"	80	4,140	10
55.410	7" x 1" x 1"	24	3,600	10
55.411	7" x 1" x 1"	36	3,600	10
55.412	7" x 1" x 1"	60	3,600	10
55.413	7" x 1" x 1"	80	3,600	10
55.414	8" x 1" x 1 1/4"	24	3,600	10
55.415	8" x 1" x 1 1/4"	36	3,600	10
55.416	8" x 1" x 1 1/4"	60	3,600	10
55.417	8" x 1" x 1 1/4"	80	3,600	10
55.419	10" x 1" x 1 1/4"	24	2,485	4
55.420	10" x 1" x 1 1/4"	36	2,485	4
55.421	10" x 1" x 1 1/4"	60	2,485	4
55.422	10" x 1 1/2" x 1 1/4"	24	2,485	4
55.423	10" x 1 1/2" x 1 1/4"	36	2,485	4
55.424	10" x 1 1/2" x 1 1/4"	60	2,485	4
55.425	12" x 2" x 1 1/2"	24	2,070	4
55.426	12" x 2" x 1 1/2"	36	2,070	4
55.427	12" x 2" x 1 1/2"	60	2,070	4
55.428	14" x 2" x 1 1/2"	24	1,775	2
55.429	14" x 2" x 1 1/2"	36	1,775	2
55.430	14" x 2" x 1 1/2"	60	1,775	2

Green Silicon Carbide

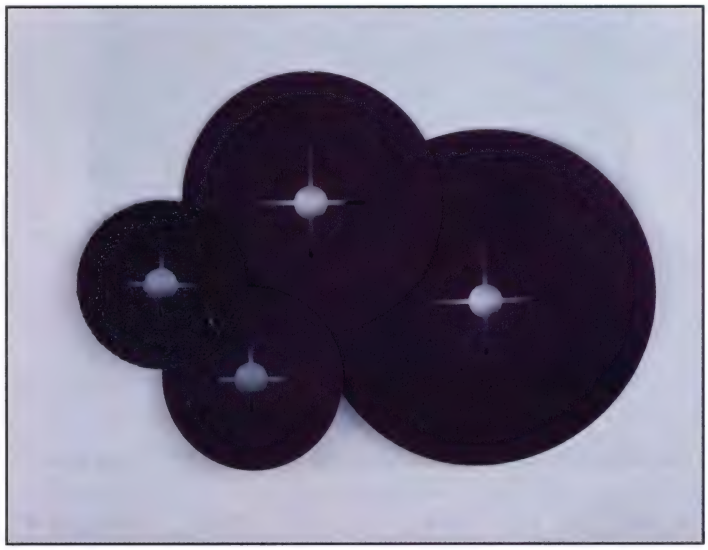
55.431	6" x 3/4" x 1"	60	4,140	10
55.432	6" x 3/4" x 1"	80	4,140	10
55.433	6" x 3/4" x 1"	120	4,140	10
55.434	6" x 1" x 1"	60	4,140	10
55.435	6" x 1" x 1"	80	4,140	10
55.436	6" x 1" x 1"	120	4,140	10
55.437	7" x 1" x 1"	60	3,600	10
55.438	7" x 1" x 1"	80	3,600	10
55.439	7" x 1" x 1"	120	3,600	10
55.440	8" x 1" x 1 1/4"	60	3,600	10
55.441	8" x 1" x 1 1/4"	80	3,600	10
55.442	8" x 1" x 1 1/4"	120	3,600	10
55.443	10" x 1" x 1 1/4"	60	2,485	4
55.444	10" x 1" x 1 1/4"	80	2,485	4
55.445	10" x 1" x 1 1/4"	120	2,485	4

Vitrified bench grinding wheels come with nested bushings. Check the chart at right for bushing sizes.

Wheel Dia.	Arbor Hole	BUSHING SIZE				
		1/2"	5/8"	3/4"	1"	1 1/4"
6"	1"	●	●	●		
7"	1"	●	●	●		
8"	1 1/4"		●	●	●	
10"	1 1/4"			●	●	
12"	1 1/2"				●	●
14"	1 1/2"				●	●

Metabo

Abrasive Discs



Metabo abrasive discs have a sturdy vulcanized fiber backing for extra long life. Many disc diameters and grit sizes are available to suit a variety of finishing applications

Abrasive Discs for Air & Electric Grinders

Cat.No.	Size	Spec.	Application	Max RPM	Pcs/pkg.
24.135	4 1/2"x7/8"	A16	Steel	13,300	25
24.136	4 1/2"x7/8"	A24	Steel	13,300	25
24.137	4 1/2"x7/8"	A40	Steel	13,300	25
24.144	4 1/2"x7/8"	A50	Steel	13,300	25
24.138	4 1/2"x7/8"	A60	Steel	13,300	25
24.139	4 1/2"x7/8"	A80	Steel	13,300	25
24.140	4 1/2"x7/8"	A100	Steel	13,300	25
24.141	4 1/2"x7/8"	A120	Steel	13,300	25
24.142	4 1/2"x7/8"	A150	Steel	13,300	25
24.143	4 1/2"x7/8"	A180	Steel	13,300	25
24.223	5"x7/8"	A16	Steel	12,200	25
24.218	5"x7/8"	A24	Steel	12,200	25
24.219	5"x7/8"	A40	Steel	12,200	25
24.217	5"x7/8"	A50	Steel	12,200	25
24.220	5"x7/8"	A60	Steel	12,200	25
24.221	5"x7/8"	A80	Steel	12,200	25
24.222	5"x7/8"	A100	Steel	12,200	25
24.224	5"x7/8"	A120	Steel	12,200	25
24.225	5"x7/8"	A150	Steel	12,200	25
24.226	5"x7/8"	A180	Steel	12,200	25
24.103	7"x7/8"	A24	Steel	10,000	25
24.104	7"x7/8"	A40	Steel	10,000	25
24.102	7"x7/8"	A50	Steel	10,000	25
24.105	7"x7/8"	A60	Steel	10,000	25
24.106	7"x7/8"	A80	Steel	10,000	25
24.107	7"x7/8"	A100	Steel	10,000	25
24.227	9"x7/8"	A24	Steel	9,000	25
24.228	9"x7/8"	A40	Steel	9,000	25
24.237	9"x7/8"	A50	Steel	9,000	25
24.229	9"x7/8"	A60	Steel	9,000	25
24.230	9"x7/8"	A80	Steel	9,000	25
24.231	9"x7/8"	A100	Steel	9,000	25

Backing Pads

Metabo backing pads are heavy-duty plastic pads made specifically to be used with Metabo abrasive discs. They are available for both M14 and 5/8"-11 spindles

Backing Pads with Nuts for use with Abrasive Discs

Cat.No.	Diam.	Backing Nut	Use On	Max RPM
23.274	4 1/2"	M8	Metabo AG500	10,000
23.279	4 1/2"	M14	Metabo AG550(SL) 7115 and other small grinders with M14 spindle	10,000
23.283	4 1/2"	5/8"-11	Metabo AG650SL(VS) AG555SL and other small grinders with 5/8"-11 spindle	10,000
23.278	5"	M14	Metabo AG705(SL), EW9125 and other small grinders with M14 spindle	10,000
23.284	5"	5/8"-11	8125, 9123,7126 and other small grinders with 5/8"-11 spindle	10,000
23.275	7"	M14	Metabo EW9150	8,500
23.281	7"	5/8"-11	Metabo 1115 and other 7" or 9" sander/grinders with 5/8"-11 spindle	8,500
23.282	9"	5/8"-11	Metabo and other 9" sander/grinders with 5/8"-11 spindle	6,600

Replacement Backing Pad Nuts

Cat.No.	Nut	Pad Diam.
34.113.006	M14	4 1/2" & 5"
34.113.021	5/8"-11	4 1/2" & 5"
34.113.016	M14	7"
34.113.017	5/8"-11	7" & 9"

Zirconium Flap Discs - Interleaved & Non-woven Flap Wheels

Flap Discs provide an aggressive rate of removal while at the same time producing a finished surface.

Interleaved Flap Wheels

Item No.	Size Dia. x Width x Shank	Grit	Max RPM
55.390	3" x 1" x 1/4"	80	18,000
55.391	3" x 1" x 1/4"	120	18,000
55.392	3" x 1" x 1/4"	180	18,000
55.393	3" x 2" x 1/4"	80	6,000
55.394	3" x 2" x 1/4"	120	6,000
55.395	3" x 2" x 1/4"	180	6,000

Interleaved mounted flap wheels for use with 6145 Die Grinder.

4 1/2" Zirconium Flap Discs

Cat.No.	Spec.	Application	Max RPM	Pcs/Pack
24.241	A40	Steel	13,300	1
24.243	A60	Steel	13,300	1
24.244	A80	Steel	13,300	1

Non-Woven Mounted Finishing/Blending Wheels

7" Zirconium Flap Discs

Cat.No.	Spec.	Application	Max RPM	Pcs/Pack
24.256	A40	Steel	8,500	1
24.258	A60	Steel	8,500	1
24.259	A80	Steel	8,500	1

Item No.	Size Dia. x Width x Shank	Grit	Max RPM
55.380	3/8" x 1" x 1/4"	Fine	10,000
55.381	2 3/8" x 1" x 1/4"	Med	10,000
55.382	2 3/8" x 2" x 1/4"	Fine	8,000
55.383	2 3/8" x 2" x 1/4"	Med	8,000
55.384	3" x 1" x 1/4"	Fine	8,000
55.385	3" x 1" x 1/4"	Med	8,000
55.386	3" x 2" x 1/4"	Fine	6,000
55.387	3" x 2" x 1/4"	Med	6,000

Non-woven mounted flap wheels for use with 6145 Die Grinder.

Metabo

Wire Cup Brushes

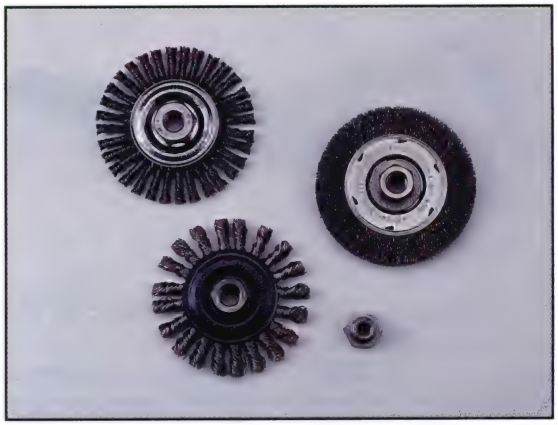
Wire Cup Brushes for Smaller Air and Electric Grinders

Cat.No.	Diam.	Thread	Wire	Max RPM	Use On
23.795	2 3/4"	M8	.014 carbon steel knotted	11,000	AG500
23.796	2 3/4"	M14	.014 carbon steel knotted	11,000	AG550(SL) 7115
23.804	2 3/4"	5/8"-11	.014 carbon steel knotted	11,000	AG650SL(VS) 8125, 9123, 1115
55.200	2 3/4"	5/8"-11	.020 carbon steel knotted	14,000	AG650SL(VS) 8125, 9123,1115
23.800	2 3/4"	M8	.014 st.steel knotted	11,000	AG500
23.801	2 3/4"	M14	.014 st.steel knotted	11,000	AG550(SL) 7115
23.805	2 3/4"	5/8"-11	.014 st.steel knotted	11,000	AG650SL(VS) 8125, 9123, 1115
55.201	2 3/4"	5/8"-11	.020 st.steel knotted	14,000	AG650SL(VS) 8125, 9123,1115
55.206	2 3/4"	M14	.012 carbon steel crimped	12,500	AG550SL 7115
55.207	2 3/4"	5/8"-11	.012 carbon steel crimped	12,500	AG650SL(VS), 8125, 9123, 1115

Wire Cup Brushes for Larger Air and Electric Grinders

Cat.No.	Diam.	Thread	Wire	Max RPM	Use On
55.209	4"	5/8"-11	.014 carbon steel crimped	8,500	7"-9" angle grinders with 5/8"-11 threads
23.765	4"	5/8"-11	.023 carbon steel knotted	8,500	7"-9" angle grinders with 5/8"-11threads
55.211	6"	5/8"-11	.014 carbon steel crimped	6,600	7"-9" angle grinders with 5/8"-11 threads
55.210	6"	5/8"-11	.023 carbon steel knotted	6,600	7"-9" angle grinders with 5/8"-11 threads

Wire Wheels



Wire Wheel Brushes for Smaller Air and Electric Grinders

Cat.No.	Diam.	Face Width	Thread	Wire	Max RPM	Use On
55.132B	4"	3/16"	M14	.020 carbon steel knotted	20,000	AG550(SL) 7115
55.137	4"	3/16"	5/8"-11	.020 carbon steel knotted	20,000	AG650SL 8125, 9123 1115
55.135	4"	3/16"	M14	.020 st.steel knotted	20,000	AG550(SL) 7115
55.138	4"	3/16"	5/8"-11	.020 st.steel	20,000	AG650SL 8125, 9123 1115
55.132A	4"	3/8"	M14	.020 carbon steel knotted	20,000	AG550(SL) 7115
55.136	4"	3/8"	5/8"-11	.020 carbon steel knotted	20,000	AG650SL 8125, 9123 1115
55.220	4"	3/8"	M14	.020 st.steel knotted	20,000	AG550(SL) 7115
55.221	4"	3/8"	5/8"-11	.020 st.steel knotted	20,000	AG650SL 8125, 9123 1115
55.226	4"	1/2"	M14	.014 carbon steel crimped	12,500	AG550(SL) 7115
55.227	4"	1/2"	5/8"-11	.014 carbon steel crimped	12,500	AG650SL 8125, 9123 1115

Wire Brush Adaptors

56.300 M10 x 1.25 to 5/8"-11 adaptor
56.301 M10 x 1.50 to 5/8"-11 adaptor

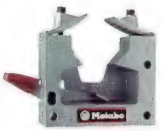
NOTE: Allows use of 5/8"-11 thread brushes on grinders with M10 thread spindles.

SAFETY NOTE: Never use wheels or other accessories rated lower than the no-load RPM of the grinder. Eye protection is required.

Metabo

Nibbler & Shears

	16 Gauge Shear	12 Gauge Shear	14 Gauge Nibbler
Model	**6872**	**6870**	**NB14**
	□	□	□
Compact handy power tool; also suitable for "one hand" operation	●	●	●
Metal strip on top of body which serves as rest when the tool is not in use	●	●	●
Auto-stop brushes	●	●	●
Allows burr-free shearing, edge trimming and cutting out sheet steel and shearing plastics	●	●	
Blades with four cutting edges require no resharpening or readjustment	●	●	
Accurate cutting through heavy-duty cutting head with drop forged, hardened and ground base	●	●	
Suitable for cutting all types of sheet metal without deformation of the material and for punching plastics . Tool can pivot 360° while cutter head is in operation.			●
The guide pin of the punch is guided concentrically relative to the die which insures long service life of the cutting tools and very accurate cuts.			●
Can be mounted upside down in a bench-mounting stand (30.340) for stationary use.	●	●	●
U L Listed	●	●	
Torque (maximum torque in Inch lbs.)	26.5 inch lbs.	53 inch lbs.	53 inch lbs.
Capacity			
- in mild steel	**16 GA**	**12 GA**	**14 GA**
- in mild stainless steel	**18 GA**	**14 GA**	**16 GA**
Amps	**5.2**	**5.2**	**5.2**
Input watts	**550**	**550**	**550**
No-load strokes per minute (SPM)	**5300**	**3000**	**3000**
Minimum cutting radius	**5/8"**	**3/4"**	**3/16"**
Replacement blades	**31.041**	**30.201**	**n/a**
Replacement punch	**n/a**	**n/a**	**30.202**	
Replacement die	**n/a**	**n/a**	**30.203**
Optional die for corrugated	**n/a**	**n/a**	**30.204**
Tool weight	**4.8 LBS.**	**6.0 LBS.**	**4.9 LBS.**
Shipping weight	**7 LBS.**	**9 LBS.**	**7 LBS.**
Length	**9"**	**11"**	**11"**
Optional carrying case	**55.077**	**55.077**	**55.077**
Standard Equipment:	Allen wrenches (34.416.154) (34.416.157)	Allen wrenches (34.416.078) (34.416.077)	Allen wrench (34.416.153)



31.340 Bench Mount Stand

For stationary use of shears and nibbler

27.107 Clamp

Used to affix 30.340 bench mount stand to table top or work surface.

Saws

Variable Speed Portable Band Saw

4479

Heavy-duty variable speed portable unit with large cutting capacity and lightweight design

Variable speed selection dial increases versatility and provides easy job repeatability

Quick and easy blade change

Trigger switch in handle

Double insulated

Capacity	
- Round	4 1/4"
- Rectangular	4 1/4" x 4 3/4"
Amps	6.0
Input watts	684
No-load speed per minute (SFPM)	90 - 240
Blade length	44 7/8"
Tool weight	14.3 LBS.
Shipping weight	19 LBS.
Length	21 1/2"
Optional carrying case	55.592

Standard Equipment: (2" x 8") Lubrication Stick (23.443)
Carbon steel blade

55.520 Portable Band Saw Vise

Clamps securely to band saw for accurate cuts
"Easy-on easy-off" assembly
Solid "all-metal" construction

2-speed Orbital Reciprocating Saw

RS900

Rugged 2-speed tool features a 7° rake angle for optimum cutting performance

Choice of orbital or straight reciprocating action

Universal blade clamp

Side mounted orbital selector switch

Trigger switch and two-speed selector switch located in D-handle

Double insulated

Capacity	
- Wood	12"
- Metal	3/4"
Amps	8.0
Input watts	920
No-load strokes per minute (SPM)	1900/2800
Stroke length	1 7/8"
Tool weight	8.9 LBS.
Shipping weight	21LBS.
Length	18 3/4"
Standard carrying case	55.552

Standard Equipment: Allen wrench (55.551)
Blade
Steel carrying case (55.552)

Find Metabo reciprocating saw blades on page 40

Portable Band Saw Blades

Carbon Steel Blades

Item #	Blades Per Pkg.	Teeth Per Inch	Wall or Material Thickness
55.521	3	10	3/16" to 3/4"
55.523	3	14	5/32" to 1/2"
55.525	3	18	1/8" x 1/4"
55.527	3	24	3/32" to 1/8"

Aluminum, Brass, Bronze, Copper, Magnesium, Mild Steel, Angle Iron, Cast Iron, Galvanized Pipe, Thin Wall Tubing.
USE HIGHER BLADE SPEED.

All Blades are 44 7/8" Long

High Speed Steel Blades

Item #	Blades Per Pkg.	Teeth Per Inch	Wall or Material Thickness
55.529	1	10	7/32" to 7/8"
55.531	1	14	3/16" to 5/8"
55.533	1	18	5/32" to 3/8"
55.535	1	24	3/32" to 5/8"

Cuts all materials shown to the left using HIGHER BLADE SPEED.
Also cuts Chrome, Tungsten Steel, Stainless Steel, Electrical Insulated Cable, Fiberglass, Asbestos, Plastics, and other problem materials using LOWER BLADE SPEED.

Metabo

Reciprocating Saw Blades

Item #	Blades Per Pkg.	Teeth Per Inch	Length (inches)	Steel Type	Application
#55.553	5	6	6	Carbon	General roughing in wood
	5	6	12	Carbon	General roughing in wood
#55.557	5	6	6	Bi-Metal	Premium blade for nail-embedded wood
#55.559	5	6	6	Bi-Metal	Premium blade for nail-embedded hardwood
#55.561	5	6	6	Carbon	General wood cutting,Fast cutting action
	10	10	6	Carbon	Flexible blade for all woods including nail-embedded wood
#55.563	10	18	6	Carbon	Flexible blade for all woods including nail-embedded wood
	5	10	12	Carbon	Flexible blade for all woods including nail-embedded wood in hard to reach areas
#55.567	5	18	12	Carbon	Flexible blade for all woods including nail-embedded wood in hard to reach areas
#55.571	10	18	2 1/2	Bi-Metal	Scroll cutting metal, 18 gauge to 1/8"
	10	10	4	Bi-Metal	Heavy gauge non-ferrous metals, bar, angle iron, cast aluminum
	10	14	4	Bi-Metal	Heavy gauge non-ferrous metals, bar, angle iron, cast iron, sheet steel over 18 gauge
#55.573	10	18	4	Bi-Metal	Heavy guage non-ferrous metals, bar, angle iron, galvanized pipe, tubing over 18 gauge
	10	24	4	Bi-Metal	Sheet steel under 18 gauge, galvanized pipe, tubing under 18 gauge
	10	32	4	Bi-Metal	Sheet steel under 18 gauge, galvanized pipe, tubing under 18 gauge
	10	10	6	Bi-Metal	Heavy gauge non-ferrous metals, bar, angle iron, cast aluminum
#55.583	10	14	6	Bi-Metal	Heavy guage non-ferrous metals, bar, angle iron, cast iron, sheet stee over 18 gauge
	10	18	6	Bi-Metal	Heavy gauge non-ferrous metals, bar, angle iron, galvanized pipe, tubing over 18 gauge
#55.591	10	24	6	Bi-Metal	Sheet steel under 18 gauge galvanized pipe, tubing under 18 gauge
	10	6	4	Carbon	Plaster board cutting, plaster with metal lathe

Jig Saw Blades

Item #	Blades Per Pkg.	Teeth Per inch	Tooth Type	Cutting Length	Application
#23.629	5	20	Wavy-set-HSS	4 1/2"	Sheet steel, non-ferrous metals 16 gauge to 9 gauge, reinforced plastics
#23.630	5	20	Wavy set	1 5/8"	Plywood, hardboard, pressed materials
#23.631	5	12	Wavy set	1 5/8"	Plywood, hardboard, pressed materials
#23.632	5	8	Saw set	2 1/2"	Hard and soft wood (rough cut)
#23.633	5	6	Saw set	2 1/2"	Hard and soft wood (clean cut) and ground
#23.634	5	10	Ground	2 1/2"	Hard and soft wood, plywood, hardboard (very clean cut), plastics
#23.635	5	6	Ground	2 1/2"	Hard and soft wood, plywood, hardboard (very clean cut), plastics
#23.636	5	32	Wavy set-HSS	1 5/8"	Sheet steel, non-ferrous metals up to 14 gauge, reinforced plastics, man-made marble, fiberglass
#23.637	5	20	Wavy set-HSS	1 5/8"	Sheet steel 16 gauge to 9 gauge, non-ferrous metals, reinforced plastics
#23.638	5	12	Wavy set-HSS	1 5/8"	Sheet steel 16 gauge to 9 gauge, non-ferrous metals 11 gauge to 3/8", reinforced plastics
#23.639	5	8	Saw set-HSS	2 1/2"	Sheet steel, no-ferrous metals 11 gauge to 9/16", plastics, fiberglass
#23.640	5	12	Ground-HSS	2 1/2"	Non-ferrous metals up to 3/8" (very clean cut)
#23.641	5	0	Knife ground	2 1/4"	Soft rubber, cloth, foam materials
#23.642	1	0	Half round rasp	2 5/8"	Woodworking (n/a for EP140)
#23.643	1	0	Flat rasp	2 5/8"	Woodowrking (n/a for EP140)
#23.644	1	0	Triangular rasp	2 5/8"	Woodworking (n/a for EP140)
#23.646	5	12	Wavy set	1 7/8"	Scroll cutting in wood and plywood
#23.647	5	20	Wavy set-HSS	1 5/8"	Suitable for cutting curves, mild steel, non-ferrous metal in 16 gauge to 9 gauge, reinforced plastics
#23.648	5	8	Saw set-HSS	2 1/2"	Suitable for cutting curves, mild steel, 11 gauge to 4 gauge, non-ferrous metals 11 gauge to 9/16", plastics, fiberglass
#23.649	5	6	Saw set	2 1/2"	Curve cutting in hard and soft wood(clean cut)
#23.654	5	6	Ground	2 1/2"	Hard and soft wood, plywood,(clean cut)
#23.650	5	10	Ground	2 1/2"	Hard and soft wood, plywood, (cuts on down stroke)
#23.655	5	6	Ground	2 1/2"	Hard and soft wood, plywood, (extra thick blade)
#23.657	1	0	Carbide	2 1/8"	Counter top materials, tempered hardboard, hardwood veneers, wood with nails, plaster on metal lath, asbestos, cement, fiberglass, man-made marble, ceramic tile, slate, cast stone, clay, brick
#23.658	1	0	Carbide	2 1/8"	Counter top materials, tempered hardboard, hardwood veneers, wood with nails, plaster on metal lath, asbestos, cement, fiberglass, man-made marble, ceramic tile, slate, cast sone, clay, brick
#23.684	3	0	Knife ground	4 3/4"	Serrated edge knife blade for cardboard, polystyrene
#23.971	5	20	Wavy set	2"	Sheet steel and non-ferrous metals up to 14 gauge, Stainless steel up to 20 gauge, reinforced plastics
#23.972	5	18	Wavy set	2"	Reinforced plastics, sheet steel and non-ferrous metals 16 to 9 gauge
#23.973	5	12	Saw set	2"	Reinforced plastics, sheet steel 11 gauge to 4 gauge and non-ferrous metals 11 gauge to 3/8"
#23.974	5	8	Saw set	3"	Reinforced plastics, sheet steel 11 gauge to 4 gauge and non-ferrous metals 11 gauge to 3/8"

Blade Shank Style

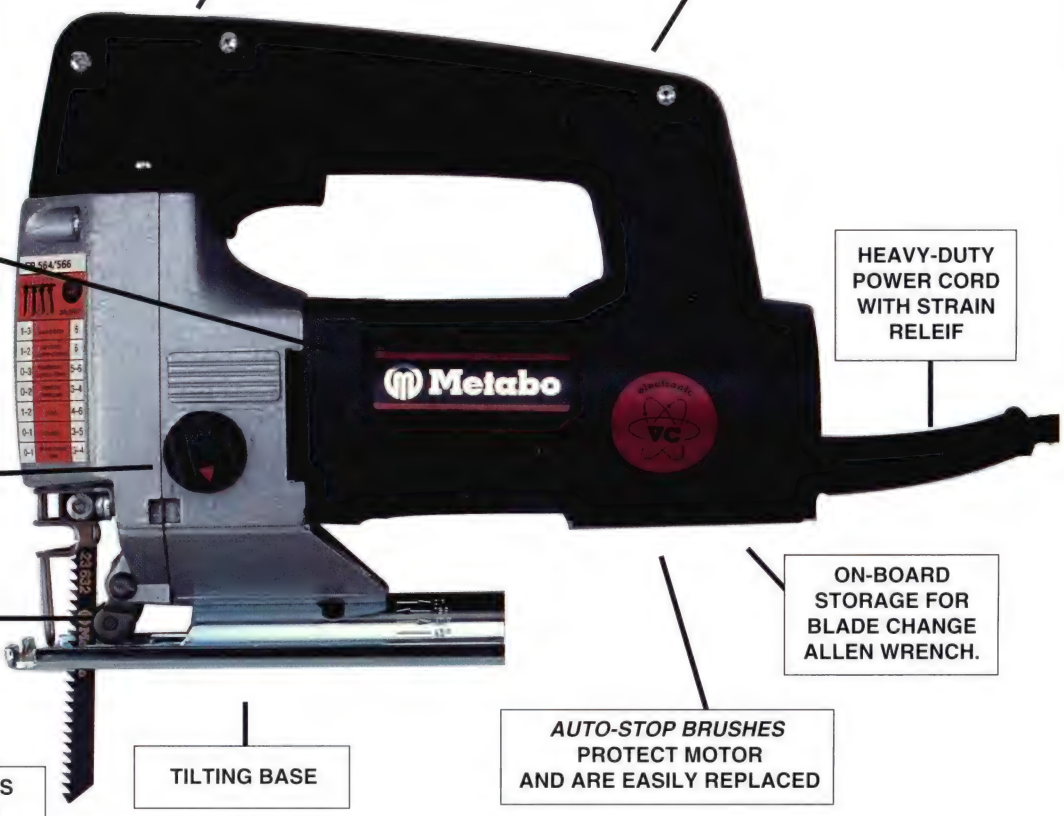
Jig Saws

Metabo manufactures high quality jig saws for the professional working with wood, plastic, or metal.

As with many Metabo built tools, the jig saw combines a powerful motor, precision gearing, and advanced electronic technology to deliver top performance. A beveling indexing shoe, vario-constamatic electronics, easy blade changing, impressive cutting speed, and excellent balance are just a few of the reasons our jig saws are a top choice.

In addition, Metabo jig saws have a well engineered blade roller system that enable the operator to make consistent straight cuts even through hard, thick materials.

METABO Jig Saw Model EP565



POWERFUL 5 AMP MOTOR, PRECISION CUT HARDENED STEEL GEARING, AND ELECTRONIC SPEED CONTROL PROVIDE SMOOTH AND EFFICIENT POWER TRANFER THROUGHOUT THE ENTIRE SPEED RANGE

VARIABLE SPEED CONTROL WITH *ADJUSTING DIAL*

ERGONOMIC TOP-HANDLE DESIGN PROVIDES FOR COMFORTABLE OPERATION WITH REDUCED OPERATOR FATIGUE

RUGGED POLYMER-RESIN MOTOR HOUSING AND METAL GEAR HOUSING FOR ADDED *DURABILITY*

HEAVY-DUTY POWER CORD WITH STRAIN RELEIF

4 POSITION ORBITAL SETTING ADJUSTS FROM FAST RIPPING TO FINE CUTTING

GROOVED NEEDLE-BEARING BLADE-SUPPORTING ROLLER-BEARING FOR ACCURATE CUTS

ON-BOARD STORAGE FOR BLADE CHANGE ALLEN WRENCH.

AUTO-STOP BRUSHES PROTECT MOTOR AND ARE EASILY REPLACED

TILTING BASE

POWERFUL COOLING FAN CHANNELS AIR STREAM TO BLOW DUST FROM LINE OF CUT FOR ADDED VISIBILITY

VARIO-CONSTAMATIC SPEED CONTROL TO HELP MAINTAIN SPM EVEN UNDER FULL LOAD CONDITIONS

ALL METABO JIG SAWS CAN ALSO ACCEPT UNIVERSAL SHANK JIG SAW BLADES

Metabo

Jig Saws

	9.6V Cordless Jig Saw with Orbit	Variable Speed Jig Saw	Variable Speed Jig Saw with Orbit
Model	**EP140**	**E452**	**EP455**
Aluminum die-cast gear housing			
Variable speed controlled by adjusting dial	●	●	●
Electronic speed stabilizer			
4-stage orbital saw-blade movement for fast cutting	●		●
Grooved needle-bearing roller-guide prevents the blade from wandering allowing for truer cuts.	●	●	●
Suitable for bevel cuts. Rapid setting of the sole plate for bevel angles of 15, 30 & 45°	●	●	●
On tool storage of blade change and shoe adjustment allen wrench	●	●	●
Accepts all styles of jigsaw blades (Metabo, Bosch style, Universal, etc.)	●	●	●
Sawdust is blown from line of cut for better visabilty		●	●
Anti-splintering sole plate insert	●	●	●
Auto-stop carbon brushes		●	●
9.6V battery pack using FET electronics	●		
U L Listed		●	●
Torque (maximum torque measured in inch lbs.)	35 inch lbs.	44 inch lbs.	44 inch lbs.
Maximum thickness of material			
- wood	1 1/2"	2"	2"
- non ferrous metal	1/4"	3/8"	3/8"
- sheet steel	1/8"	1/8"	1/8"
Amps	9.6V	4.0	4.0
Rated input watts	-	450	450
No-load speed (SPM)	700-2500	500-3000	500-3000
Length of stroke	5/8"	3/4"	3/4"
Orbital	4 position	No	4 position
Tool weight	3.9 LBS.	5.0 LBS.	5.9 LBS.
Shipping weight	9 LBS.	8 LBS.	8 LBS.
Length	10"	7 1/4"	7 3/4"
Optional carrying case	31.374	55.077	55.077
Standard Equipment:	9.6V battery pack (30.762) 115V charger (31.107) Allen Wrench (34.416.153) 3 blade assortment Anti-splintering insert (31.208) Finger guard (34.220.019) **EP140-10 – with ICS-10 charger** **EP141– without charger**	Allen Wrench (34.416.153) 3 blade assortment Anti-splintering insert (31.208) Finger guard (34.220.019)	Allen Wrench (34.416.153) 3 blade assortment Anti-splintering insert (31.208) Finger guard (34.220.019)

Metabo

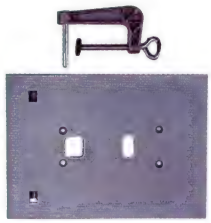
Jig Saws

	Variable Speed Jig Saw with Orbit	Variable Speed Jig Saw with Orbit
	EP564	EP565
	●	●
	●	●
	●	●
	●	●
	●	●
	●	●
	●	●
	●	●
	●	●
	●	●
	●	●
	●	●
	53 inch lbs.	53 inch lbs.
	2 3/8"	2 3/8"
	3/4"	3/4"
	1/4"	1/4"
	5.0	5.0
	550	550
	500-3000	500-3000
	1"	1"
	4 position	4 position
	6.4 LBS.	6.2 LBS.
	9 LBS.	9 LBS.
	9 1/2"	9 1/2"
	55.077	55.077
	Allen Wrench (34.416.153) 3 blade assortment Anti-splintering insert (31.208) Finger guard (34.220.016)	Allen Wrench (34.416.153) 3 blade assortment Anti-splintering insert (31.208) Finger guard (34.220.016)

Jig Saw Accessories

31.340
Circle Guide

Guide for cutting circles from 4" to 14" dia. and for ripping parallel to an edge (max. width 8 1/4"). For use on all Metabo jigsaws.



30.308
Jig Saw Table

Jig saw table (10" x 7 1/4"). Includes mounting clamp. For use with all Metabo Jigsaws

30.338 Oiler

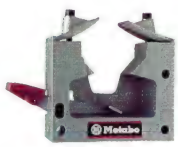
Oiler for cooling saw blade while cutting metals, plexiglass, etc. Not for use on 451, E 452, or EP 455 .

23.443 (Not shown)
Saw blade lubrication stick

(2' x 8") Useful when cutting softer metals

23.661
Shoe Cover

Protects delicate work surfaces from scratches caused by the sole plate of the jig saw. Easily snaps on and off.



30.340
Bench Mount Stand

(Fits EP 564 jig saw and all other Metabo barrel grip tools ; nibbler, shears, etc.)
Firmly mounts EP 564 jig saw to most work tables when used with two mounting clamps (27.107, optional)

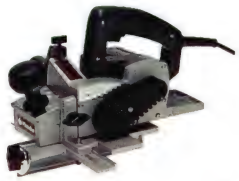
31.208
Anti-splintering Insert

These inserts fit into the sole plate around the blade and dramatically reduce splintering during cutting or ripping operations. (3 inserts per pack)

See a full assortment of Metabo Jig saw blades on page 40

Metabo

Planers



	Planer	Planer
Model	**0882**	**8382**
	▣	▣
Continuously adjustable planing depth and rabbeting depth	●	●
Aluminum die-cast housing		●
Faced aluminum die-cast sole plate	●	●
Auto-stop brushes	●	●
Right or left side chip disposal	●	
All carbide double sided blades	●	●
Spacer rest that prevents damage to blades when tool is at rest	●	
U L Listed	●	●
Torque (maximum torque in Inch lbs.)	10.6 inch lbs.	13 inch lbs.
Maximum depth of cut	**1/8"**	**1/8"**
Maximum rabbeting depth	**7/8"**	**7/8"**
Maximum width	**3 1/4"**	**3 1/4"**
Amps	**6.0**	**7.5**
Rated input watts	**800**	**830**
No-load RPM	**12000**	**14000**
Tool weight	**9.2 LBS.**	**9.1 LBS.**
Shipping weight	**12 LBS.**	**12 LBS.**
Length	**11 1/2"**	**11 1/2"**
Optional carrying case	**31.382**	**31.382**
Standard Equipment	Allen wrench (34.416.154) Cutting Blades (30.282) Suction Nozzle (30.927) Optional equipment Tilting fence (30.991)	Allen wrench (34.416.154) Cutting Blades (30.282) Suction Nozzle (30.274) Tilting fence (30.991)
	Also suitable for occasional DC use	**Also suitable for occasional DC use**

Planer Accessories

30.926 Bench Mount Planer Stand

Make your portable planer into a bench mount planer. The 30.926 planer stand firmly mounts all Metabo planers to any work table with two mounting clamps (27.107, optional). The stand comes equipped with spring loaded safety guard and trigger lock-on accessory.

30.565 Rustic Cut Planer Blade Kit

These reversible carbide blades will give your planed surfaces a rough, hand hewn look. The kit allows any Metabo planer to use these specialty bades. Replacement blades are available (30.566, set of 2 blades).

30.888 Chip Bag

The chip bag accessory is convenient for small planing jobs occuring in a clean environment.

27.107 Universal Clamp

This clamp is required in order to use many Metabo accessories. It secures bench mount stands and tools to work surfaces. This clamp fits any Metabo accessory requiring a clamp.

Metabo

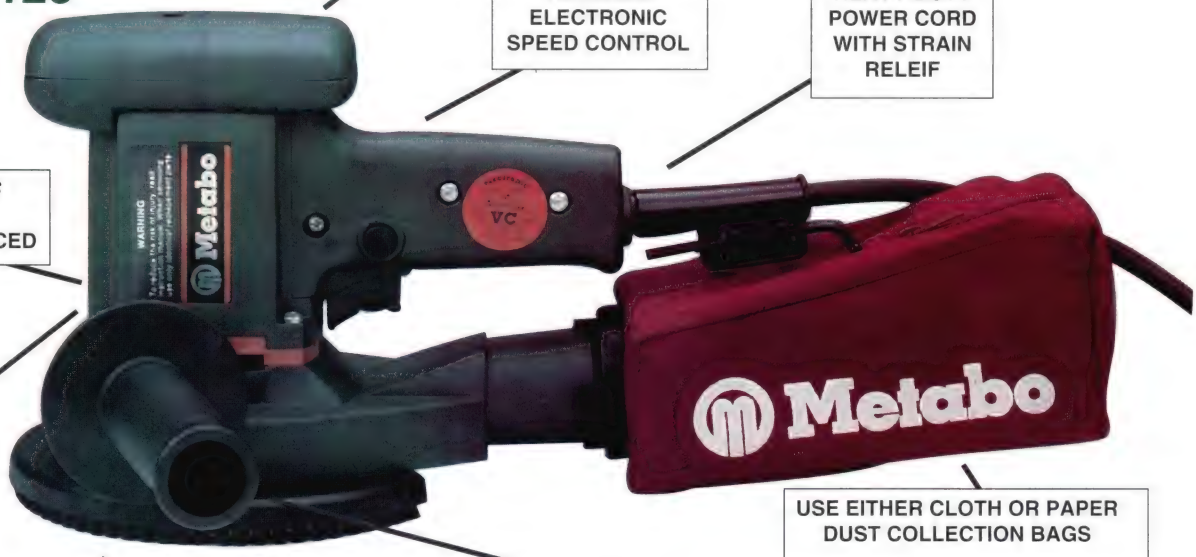
Orbital Sanders

Metabo is well known through-out the industry for manufacturing smooth running, almost vibration free, orbital sanders.

With a large offering of sanding equipment, (orbital 1/3 sheet and 1/2 sheet, dustless, belt sander, and now random orbit sander), Metabo is sure to have the right machine to suit your specific finishing application. In addition, Metabo supplies a complete line of coated abrasives designed to work well with whichever sander you happen to be using.

The 0125 5" Random orbit sander has received excellent independent reviews for its finishing performance. Nearly swirl free, the 0125 has a "through the pad" dust extraction system eliminating the need for a bulky sanding shroud. In addition, the in-line motor design runs very quietly and gives the sander a lower center of gravity for well-balanced control.

METABO Random Orbit Sander Model 0125



ERGONOMIC TOP-HANDLE DESIGN FOR COMFORTABLE OPERATION WITH REDUCED OPERATOR FATIGUE

VARIABLE ELECTRONIC SPEED CONTROL

HEAVY-DUTY POWER CORD WITH STRAIN RELEIF

AUTO-STOP BRUSHES PROTECT MOTOR AND ARE EASILY REPLACED

RUGGED POLYMER-RESIN MOTOR HOUSING FOR ADDED *DURABILITY*

USE EITHER CLOTH OR PAPER DUST COLLECTION BAGS

MULTI-POSITION SIDE HANDLE ADJUSTS TO ANY ANGLE AND MOUNTS ON RIGHT OR LEFT SIDE

VELCRO BACKED SANDING PAD FOR EASY DISC CHANGING

SANDING DUST IS DRAWN DIRECTLY THROUGH THE SANDING PAD FOR EFFICIENT DUST COLLECTION

ROTATION COMBINED WITH ORBITAL MOVEMENT PROVIDES EXTREMELY SMOOTH FINISH AND EFFICIENT STOCK REMOVAL

ULTRA SMOOTH 1.8 AMP MOTOR HAS ALL THE POWER YOU NEED TO ACHIEVE PROFESSIONAL FINISHING RESULTS

VARIO-CONSTAMATIC SPEED CONTROL TO HELP MAINTAIN RPM EVEN UNDER LOAD CONDITIONS

Orbital Finishing Sanders

	1/3 Sheet Orbital Finishing Sander	1/3 Sheet Orbital Finishing Sander	1/2 Sheet Orbital Finishing Sander	1/3 Sheet Orbital Finishing Sander
Model	**SR221 / SR226**	**4320**	**4321**	**0326**
	□	□	□	□
Aluminum die-cast orbit plate	●	●	●	●
Integral dust collection	No / Yes			●
Auto-stop brushes	●	●	●	●
U L Listed				
Double insulated	●	●	●	●
Sanding pad size	**3 5/8"x 7 1/2"**	**3 5/8"x 7 1/8"**	**4 1/2"x 8 7/8"**	**3 5/8"x 7 1/2"**
Sheet / Belt size	**1/3 sheet**	**1/3 sheet**	**1/3 sheet**	**1/3 sheet**
Orbits per minute	**11000**	**11000**	**11000**	**11000**
Orbit size	**3/32"**	**3/32"**	**3/32"**	**3/32"**
Amps	**2.0**	**1.8**	**1.8**	**2.6**
Rated input watts	**220**	**180**	**180**	**280**
Tool weight	**5.0 / 5.3 LBS.**	**4.7 LBS.**	**4.7 LBS.**	**5.5 LBS.**
Shipping weight	**8 LBS.**	**7 LBS.**	**7 LBS.**	**9 LBS.**
Length	**9 3/4" / 16"**	**10"**	**10 1/4"**	**15 1/2"**
Optional carrying case	**23.999B**	**23.999B**	**23.999B**	**23.999B**
Standard Equipment:	Assorted sanding paper Cloth dust bag (32.235) (SR 226 only)	Assorted sanding paper	Assorted sanding paper	Assorted sanding paper Cloth dust bag (32.235)
	Also suitable for occasional DC use	**Also suitable for occasional DC use**	**Also suitable for occasional DC use**	**Also suitable for occasional DC use**

Metabo Sandpaper

Pre-cut sandpaper for orbital finishing sanders (10 sheets per pack)

1/3 sheet paper

Cat.No.	Spec.
24.328	A40
24.329	A60
24.330	A80
24.331	A100
24.332	A120
24.333	A180
24.334	A240

Use on Metabo SR221, 4320 and other 1/3 sheet sanders

1/3 sheet paper (pre drilled for integral dustless collection)

Cat.No.	Spec.
24.480	A40
24.481	A60
24.482	A80
24.483	A100
24.484	A120
24.485	A180
24.486	A240

Use on Metabo SR226, 0326 and other 1/3 sheet dustless sanders

1/2 sheet paper

Cat.No.	Spec.
24.365	A40
24.366	A60
24.367	A80
24.368	A100
24.369	A120
24.370	A180
24.371	A240

Use on Metabo 4321 and other 1/2 sheet sanders

1/4 sheet paper (cling-fit velcro backed for use with 0060 cordless sander)

Cat.No.	Spec.
24.905	A40
24.906	A80
24.907	A100
24.908	A120

Use on Metabo 0060 cordless palm sander and other 1/4 sheet sanders

Random Orbit Sander - Cordless Sander - Belt Sander

	5" Random Orbit Sander	1/4 Sheet 9.6V Cordless Palm Sander	3" x 21" Belt Sander
	0125	0060	0775
	☐ VC		☐
		●	
	●		●
		●	
	●	●	●
	5" round	4 1/2"x 4 1/2"	4 1/2"x 4 1/2"
	5" round	1/4 sheet	3" x 21" Belt
	5000-12000	11000	1300 ft/min.
	3/16"	1/4"	-
	1.8	9.6V	5.5
	220	-	650
	5.2 LBS.	2.8 LBS.	11.5 LBS.
	9 LBS.	6 LBS.	17 LBS.
	19"	7"	19"
	31.398	n/a	31.383
	Side handle (31.400.055) Cloth dust bag (31.235) Medium hard velcro backing pad (31.224) Hexagon key (23.981) Brush Ring (31.221) Assorted sanding paper	Assorted sanding paper 9.6V battery (30.762) 115V charger (31.107) **Also available with 10 min.charger (0060-10) without charger (0067)**	Sanding belt Dust bag assembly (31.601.583) **Also suitable for occasional DC use**

Metabo Sandpaper

Pre-cut sandpaper for Metabo finishing tools

5" round sanding discs (cling-fit velcro backed for use with 0125 random orbit sander)

Cat.No.	Spec.
31.226	A40
31.227	A60
31.228	A80
31.229	A120
31.230	A180
31.231	A240

Use on Metabo 0125 random orbit sander (5 per pack)

3" x 21" sanding belts

Cat.No.	Spec.
31.001	A40
31.002	A60
31.003	A80
31.004	A100
31.005	A120
31.006	A180
31.007	A240
31.008	A320

Use on Metabo 0775 or other 3" x 21" belt sanders (3 per pack)

Sanding Accessories

Random Orbit Sander Accessories

31.223
Cling-fit lamb's wool bonnet

Lamb's wool polishing disc for buffing finished surfaces up to a high gloss shine.

31.222
Cling-fit polishing sponge

Used to apply polishing compounds or wax to smooth, flat surfaces prior to buffing. (not pictured)

31.225 Medium soft velcro backing pad

Softer pad is recommended for contour surfaces.(not pictured)

31.385 Paper dust bag (with connector)

Although less durable than a sturdier cloth bag, the paper dust bag can catch tinier dust particles than a conventional cloth bag. A paper dust bag is used when ever tiny dust particles must be kept to a minimum during the sanding process. A connector is used to attach the dust bag to the sander. **Replacement paper dust bags are available without the connector in packs of five (31.286). (Fits SR221, SR226, 0326, 0125)**

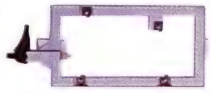
Belt Sander Accessories

31.306
Belt sander mounting block

Make your portable belt sander into a bench mounted belt sander. The 31.036 belt sander block can be fitted on the work bench so that the belt of the sander runs either vertically or horizontally. The guide supplied may be fitted to the bench-mounting block. It can be inclined up to 45° for sanding bevels. The sanding block mounts firmly to a work table with a universal mounting clamp (27.107, optional).

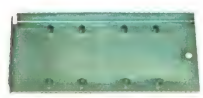
31.035 Sanding frame

This sanding frame is used to maintain a perfect horizontal balance in order to sand flat surfaces with better accuracy



Orbital Finishing Sander Accessories

31.148 Paper Punch



* You can punch your own paper for the 0326, SR226 and SR282.

Integral dust collection requires the use of punched sandpaper

Metabo

Router

3/4 Horsepower Plunge Router

0528

- Compact yet powerful
- Non-marring face plate
- Dual column guides allow smooth plunging action
- Switch lock location allows easy on and off without loss of control
- Spindle lock for easy bit changing
- Course and fine depth of cut adjustment
- Double insulated
- U L Listed

Amps	**5.0**
Input watts	**500**
No-load RPM	**27000**
Plunge depth	**2"**
Collet size	**1/4"**
Tool weight	**5.9 LBS.**
Shipping weight	**10 LBS.**
Length	**11 3/4"**
Optional carrying case	**n/a**

Standard Equipment:
1/4" collet (30.978)
Collet wrench (23.902)
Edge guide (31.602.075)

Optional Equipment:
Template guide max. capacity 25/64" (30.105)
Template guide max. capacity 7/16" (30.106)
1/8" collet (30.921)

30.980 Flex Shaft

4 ft. long, heavy-duty rubber covered flex shaft for use with both die grinder or router motor

Ball bearing tool handle

1/4" collet for 1/4" shank mounted bits

Speed range 7,500 to 30,000 RPM (Not for use on tools running less than 7,500 RPM)

Heat Gun

2-Speed, Variable Temperature Heat Gun

0200

- Electronic temperature control automatically maintains selected temperature range at either air flow
- Temperature selector dial for precise operating temperature and job repeatability
- For stripping, drying, heat shrinking and thermal sealing a broad range of materials
- Lightweight, well balanced
- Rests vertically for "hands free" operation
- Double insulated

Amps	**15.0**
Input watts	**2000**
Air flow	**10-18cu. ft/min.**
Air temperature	**200°f-1100°f**
Tool weight	**1.6 LBS.**
Shipping weight	**4 LBS.**
Length	**10 1/8"**
Optional carrying case	**55.077**

Heat Gun Accessories

31.050

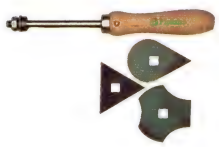
31.048

31.049

31.047

31.050 Safety nozzle for glass
31.048 Air wrap nozzle
31.049 Flat Nozzle
31.047 Round nozzle

31.046 Paint scraper kit (3 differently shaped scraping blades and 1 scraping handle)



31.046

Metabo

Hedge Trimmers

Hedge Trimmer 18" Bar

HT18

"Instant stop" blades - blades stop in 0.05 seconds providing greater operator safety

Metabo slip clutch

Hardened steel blades reciprocate in opposing directions for excellent cutting performance and substantially reduced vibration

1 1/8" space between cutters handles jobs both large and small

Dual safety switches must be simultaneously depressed to operate

Specially ground 30° blade angle for maximum cutting efficiency

Fully insulated for operator safety

Hand guard protects operator from scratches and cuts

Maximum torque 44 inch lbs.

Lenght of bar	**18"**
Amps	**3.8**
Input watts	**400**
SPM(strokes per min.)	**3000**
Space between teeth	**1 1/8"**
Tool weight	**8.2 LBS.**
Shipping weight	**13 LBS.**
Length	**32"**
Optional carrying case	**n/a**

Standard Equipment: Blade Sheath (31.378)

Optional Equipment: Twig guide (31.356)

Hedge Trimmer 26" Bar

HT26

"Instant stop" blades - blades stop in 0.05 seconds providing greater operator safety

Metabo slip clutch

Hardened steel blades reciprocate in opposing directions for excellent cutting performance and substantially reduced vibration

1 1/8" space between cutters handles jobs both large and small

Dual safety switches must be simultaneously depressed to operate

Specially ground 30° blade angle for maximum cutting efficiency

Fully insulated for operator safety

Hand guard protects operator from scratches and cuts

Twig guide helps to lift and guide twigs and branches into the cutting blades. Protects the cutting blades while cutting close to the ground or other obstacles (walls, fencing, etc.)

Maximum torque 44 inch lbs.

Lenght of bar	**26"**
Amps	**3.8**
Input watts	**400**
SPM(strokes per min.)	**3000**
Space between teeth	**1 1/8"**
Tool weight	**9.1 LBS.**
Shipping weight	**15 LBS.**
Length	**32"**
Optional carrying case	**n/a**

Standard Equipment: Blade Sheath (31.378)
Twig guide (31.356)

Carrying Cases for Metabo Tools

Model #	Material	Length	Width	Height
23.126	Steel	20 5/8"	9 1/8"	4 1/8"
23.873	Steel	26 1/8"	9 5/8"	6 3/8"
23.999B	Steel	13 3/4"	10"	5 1/8"
31.374	Steel	15 1/4"	11"	3 1/4"
31.382	Steel	15"	10 7/8"	7 1/2"
31.383	Steel	15"	10 7/8"	7 1/2"
31.393	Steel	11 3/8"	9 1/2"	3 1/4"

Model #	Material	Length	Width	Height
31.397	Steel	15 1/2"	7"	5 1/8"
31.398	Steel	15 1/2"	7"	5 1/8"
31.419	Steel	15 1/4"	11"	3 1/2"
34.445.011	Steel	23"	14"	4 1/4"
23.764	Steel	27 1/2"	13 1/2"	10 1/2"
55.077	Steel	15"	10 3/4"	3 3/4"
55.552	Steel	19 1/2"	8 1/2"	4 3/8"
55.592	Steel	22 1/8"	8 3/4"	9 7/8"

Metabo

Parts Reference (use this reference to easily identify commonly used replacement parts)

Model/(version)	Armature	Field	Brushes	Electronic component	Switch	Cord	Miscellaneous	Miscellanaeous
451	31.000.408	31.100.714	34.301.033		34.340.164	55.065	31.601.912(5)	31.600.602(6)
451/2	31.000.408	31.100.714	34.301.033	34.306.491	34.340.164	55.065	31.601.912(5)	31.600.602(6)
0125	31.000.615	31.100.838	34.301.033		34.340.472	55.065	31.224(10)	
0326	31.000.661	31.100.877	34.301.033		34.340.385	55.065	33.916.023(10)	
0528	31.000.503	31.100.704	34.301.109		34.340.423	55.065	30.919(9)	
0775	31.000.512	31.100.701	34.301.094		34.340.324	55.064	33.912.071(10)	
0851	31.000.597	31.100.858	34.301.141(E)	31.601.834	34.307.189	55.065	35.250(1)	35.167(2)
0882	31.000.492	31.100.601	34.301.023		34.340.106	55.064	30.282(8)	
1015	31.000.597	31.100.858	34.301.141(E)	31.601.835 31.601.834	34.307.188	55.065	35.250(1)	35.167(2)
1115	31.000.596	31.100.811	34.301.095	34.307.198 34.306.324	34.340.423	55.065	34.110.148(7)	34.110.148(7)
1129	31.000.356	31.100.504	34.301.071		34.340.308	55.047		
2020	31.000.227	31.100.437	34.301.097		34.340.169	55.066		
2118(G)	31.000.227	31.100.437	34.301.097		34.340.169	55.066		
2123(G)	31.000.227	31.100.437	34.301.097		34.340.169	55.066		
4320	31.000.194	31.100.174	34.301.033		34.340.106	55.065	33.916.324(10)	
4321	31.000.194	31.100.174	34.301.033		34.340.106	55.065	33.916.321(10)	
4382	31.000.313	31.100.464	34.301.072		34.340.164	55.064	30.282(8)	
4430	31.000.457	31.100.714	34.301.093	34.306.586	34.340.266	55.064		
4450	31.000.457	31.100.714	34.301.093	34.306.586	34.340.266	55.064		
4479	80.101.101	80.101.500	80.101.188	80.101.510	80.101.501	55.046		
5010	31.000.586	31.100.794	34.301.128	34.325.368	34.340.494	55.064	35.252(1)	35.167(2)
5042	31.000.586	31.100.794	34.301.128	34.325.368	34.340.494	55.065	35.252(1)	35.167(2)
5050(1)	31.000.586	31.100.794	34.301.128	34.325.368	34.340.494	55.065	35.252(1)	35.167(2)
5050(2)	31.000.586	31.100.794	34.301.128	34.325.368	34.340.494	55.065	35.305(1)	35.167(2)
5051	31.000.586	31.100.794	34.301.128	34.325.368	34.340.494	55.065	35.250(1)	35.167(2)
6010	31.000.621	31.100.827	34.301.137		34.307.246	55.064		
6018	31.000.162	31.100.717	34.301.067		34.306.858	55.064		
6018B	31.000.162	31.100.717	34.301.067		34.306.858	55.064		
6020	31.000.476	31.100.745	34.301.079		34.307.350	55.064		
6020B	31.000.476	31.100.745	34.301.079		34.307.350	55.064		
6026	31.000.484	31.100.766	34.301.079	34.340.461	34.306.989	55.064		
6030	31.000.614	31.100.837	34.301.099		34.340.308	55.047		
6145	31.000.275	31.100.704	34.301.109	34.306.670	34.340.423	55.065	30.919(9)	
6345/2	31.000.162	31.100.717	34.301.067	34.306.251	34.340.163	55.064		
6870	31.000.275	31.100.776	34.301.092		34.340.423	55.065	30.201(3)	30.201(4)
6872	31.000.275	31.100.704	34.301.109		34.340.423	55.065	31.042(3)	31.042(4)
7115	31.000.638	31.100.651	34.301.115		34.340.423	55.065	30.706(7)	30.706(7)
7126	31.000.638	31.100.651	34.301.115		34.340.423	55.065	34.110.148(7)	34.110.148(7)
8125	31.000.641	31.100.387	34.301.095		34.340.423	55.065	34.110.148(7)	34.110.148(7)
8382	31.000.539	31.100.708	34.301.095		34.340.164	55.064	30.282(8)	
9123	31.000.592	31.100.813	34.301.115	34.307.160	34.340.423	55.065	34.110.148(7)	34.110.148(7)
11125	31.000.596	31.100.811	34.301.095	34.307.198 34.306.324	34.340.423	55.065	34.110.148(7)	34.110.148(7)
AD500VS(1)	31.000.275	31.100.425	34.301.092	34.306.271	34.340.423	55.065	35.072(1)	35.167(2)
AD500VS(2)	31.000.275	31.100.776(A)	34.301.092	34.306.271	34.340.423	55.065	35.072(1)	35.167(2)
AG550	31.000.473	31.100.425	34.301.092		34.340.423	55.065	30.705(7)	30.706(7)
AG550SL	31.000.473	31.100.651	34.301.109		34.340.423	55.065	30.706(7)	30.706(7)
AG555SL	31.000.565	31.100.782	34.301.115		34.340.423	55.065	34.110.148(7)	34.110.148(7)
AG650SL(1)	31.000.638	31.100.782(A)	34.301.115		34.340.423	55.065	34.110.148(7)	34.110.148(7)
AG650SL(2)	31.000.638	31.100.651	34.301.115		34.340.423	55.065	34.110.148(7)	34.110.148(7)
AG650VS	31.000.638	31.100.651	34.301.115	34.306.670	34.340.423	55.065	34.110.148(7)	34.110.148(7)
AG705	31.000.588	31.100.387	34.301.095		34.340.423	55.065	30.705(7)	30.706(7)
AG705SL	31.000.588	31.100.387	34.301.095		34.340.423	55.065	30.706(7)	30.706(7)
AG2300A	31.000.134	31.100.447	34.301.145(E)		34.340.169	24.448.636		
AG2330	31.000.562	31.100.568	34.301.097		34.340.169	24.448.636		
CS725	80.100.101	80.100.102	80.100.103		80.100.105	55.066	80.100.114(5)	
D350	31.000.387	31.100.739	34.301.033		34.340.168	55.065	35.072(1)	35.167(2)
D350VS	31.000.387	31.100.739	34.301.033		34.340.103	55.065	35.072(1)	35.167(2)
D350VSR	31.000.388	31.100.739	34.301.033	34.340.242	34.340.103	55.065	35.252(1)	35.167(2)

Notes: (A)Field & housing have additional plastic guarding,(B)AC only,(C)AC/DC,(D)AC conversion kit,(E)Brush is set of 2

Codes: (1)-Chuck w/ Key, (2)-Chuck Key, (3)-Ram Blade, (4)-Fixed Blade, (5)-Foot Plate, (6)-Roller Guide
(7)-Flange Nuts, (8)-Cutting Blade, (9)-Collet, (10)-Sanding Pad/Plate (11)-Keyless Chuck

Metabo

Parts Reference (use this reference to easily identify commonly used replacement parts)

Model/(version)	Armature	Field	Brushes	Electronic component	Switch	Cord	Miscellaneous	Miscellanaeous
D480(1)	31.000.446	31.100.714	34.301.093		34.340.168	55.065	35.072(1)	35.167(2)
D480(2)	31.000.446	31.100.714	34.301.093		34.340.106	55.065	35.072(1)	35.167(2)
D480VSR	31.000.457	31.100.714	34.301.093	34.306.586	34.340.266	55.065	35.252(1)	35.167(2)
D500VSR	31.000.162	31.100.717	34.301.067	34.306.251	34.340.163	55.065	35.250(1)	35.167(2)
D620/2	31.000.221	31.100.715	34.301.067		34.340.106	55.065	35.035(1)	35.167(2)
D620/2VSR	31.000.411	31.100.775	34.301.067	34.306.251	34.340.163	55.065	35.250(1)	35.167(2)
D710R(1)	80.103.001	80.103.002	80.101.188		80.103.029(C)	55.065	35.250(1)	35.167(2)
D710R(2)	80.103.001	80.103.002	80.101.188		80.103.028(B)	55.065	35.250(1)	35.167(2)
D710R					80.103.031(D)			
D720/2VSR	31.000.462	31.100.635	34.301.102	34.306.617	34.340.296	55.066	35.253(1)	35.168(2)
DG250(1)	31.000.232	31.100.425	34.301.092		34.340.423	55.065	30.711(9)	
DG250(2)	31.000.232	31.100.631	34.301.109		34.340.423	55.065	30.919(9)	
DG250(3)	31.000.232	31.100.704(A)	34.301.109		34.340.423	55.065	30.919(9)	
DG251	31.000.503	31.100.704	34.301.109		34.340.423	55.065	30.919(9)	
E452	31.000.408	31.100.714	34.301.033	34.306.359	34.340.164	55.065	31.601.912(5)	31.600.602(6)
E562	31.000.275	31.100.425	34.301.092	34.306.271	34.340.423	55.065	31.601.912(5)	31.600.997(6)
EP455	31.000.386	31.100.646	34.301.033	34.306.359	34.340.168	55.065	31.601.912(5)	31.601.977(6)
EP564(1)	31.000.275	31.100.425	34.301.092	34.306.271	34.340.423	55.065	31.601.912(5)	31.601.977(6)
EP564(2)	31.000.275	31.100.631	34.301.109	34.306.670	34.340.423	55.065	31.601.912(5)	31.601.977(6)
EP564(3)	31.000.275	31.100.704(A)	34.301.109	34.306.670	34.340.423	55.065	31.601.912(5)	31.601.977(6)
EP565(1)	31.000.275	31.100.742	34.301.109	34.306.841	34.340.168	55.065	31.601.912(5)	31.601.977(6)
EP565(2)	31.000.275	31.100.742	34.301.109	34.306.841	34.340.106	55.065	31.601.912(5)	31.601.977(6)
EW9125	31.000.494	31.100.813	34.301.115	34.306.754	34.340.423	55.065	30.706(7)	30.706(7)
EW9150	31.000.373	31.100.617	34.301.095	34.306.576	34.340.423	55.065	30.706(7)	30.706(7)
				34.306.324				
HD14VSR(1)	31.000.162	31.100.717	34.301.067	34.306.251	34.340.163	55.065	35.250(1)	35.167(2)
HD14VSR(2)	31.000.411	31.100.775	34.301.067	34.306.251	34.340.163	55.065	35.250(1)	35.167(2)
HD480VSR	31.000.457	31.100.714	34.301.093	34.306.586	34.340.266	55.065	35.252(1)	35.167(2)
HD500/2VSR(1)	31.000.162	31.100.717	34.301.067		34.306.923	55.065	35.252(1)	35.167(2)
HD500/2VSR(2)	31.000.162	31.100.717	34.301.067		34.306.923	55.065	35.250(1)	35.167(2)
HD500/2VSR(3)	31.000.162	31.100.715	34.301.067		34.306.923	55.065	35.250(1)	35.167(2)
HD620/2	31.000.221	31.100.715	34.301.067		34.340.106	55.065	35.035(1)	35.167(2)
HD620/2VSR	31.000.411	31.100.775	34.301.067	34.306.251	34.340.163	55.065	35.250(1)	35.167(2)
HD700/2VSR	31.000.411	31.100.775	34.301.067		34.306.980	55.065	35.250(1)	35.167(2)
HD720/2VSR	31.000.462	31.100.635	34.301.116	34.306.617	34.340.315	55.065	35.250(1)	35.167(2)
HD800/2VSR	31.000.476	31.100.755	34.301.079	34.340.408	34.306.648	55.065	35.250(1)	35.167(2)
HD1000VSR	31.000.484	31.100.766	34.301.079	31.601.421	34.306.852	55.065	36.226(11)	
HD1010VSR	31.000.484	31.100.766	34.301.079	34.340.408	34.306.666	55.065	35.250(1)	35.167(2)
HT18	31.000.561	31.100.741	34.301.033		34.340.344	55.065	34.414.529(8)	34.414.521(4)
HT26	31.000.561	31.100.741	34.301.033		34.340.344	55.065	34.414.527(8)	34.414.524(4)
NB14(1)	31.000.275	31.100.425	34.301.092		34.340.423	55.065	30.202(3)	30.203(4)
NB14(2)	31.000.232	31.100.776(A)	34.301.092		34.340.423	55.065	30.202(3)	30.203(4)
OS150	31.000.194	31.100.174	34.301.033		34.340.106	55.046	33.916.324(10)	
P500(1)	31.000.275	31.100.425	34.301.092		34.340.423	55.065		
P500(2)	31.000.275	31.100.776(A)	34.301.092		34.340.423	55.065		
P500VS	31.000.275	31.100.776	34.301.092	34.306.271	34.340.423	55.065		
P563	31.000.275	31.100.425	34.301.092		34.340.423	55.065	31.601.912(5)	31.601.977(6)
PB4478	80.101.101	80.101.102	80.101.188		80.100.105	55.065		
RH66	31.000.356	31.100.504	34.301.071	34.306.330	34.340.023	55.047		
RH99(X)	31.000.286	31.100.403	34.301.017		34.340.023	55.047		
RS900(1)	80.102.099	80.102.102	34.301.103		80.102.184(C)	55.065	80.102.150(5)	
RS900(2)	80.102.099	80.102.102	34.301.103		80.102.183(B)	55.065	80.102.150(5)	
RT508(1)	31.000.503	31.100.631	34.301.109		34.340.423	55.065	30.919(9)	
RT508(2)	31.000.503	31.100.704(A)	34.301.109		34.340.423	55.065	30.919(9)	
SH12(1)	31.000.275	31.100.425	34.301.092		34.340.423	55.065	30.201(3)	30.201(4)
SH12(2)	31.000.275	31.100.776(A)	34.301.092		34.340.423	55.065	30.201(3)	30.201(4)
SH16(1)	31.000.275	31.100.425	34.301.092		34.340.423	55.065	30.200(3)	30.206(4)
SH16(2)	31.000.275	31.100.631	34.301.109		34.340.423	55.065	31.041(3)	31.042(4)
SH16(3)	31.000.275	31.100.704(A)	34.301.109		34.340.423	55.065	31.041(3)	31.042(4)
SR220	31.000.477	31.100.174	34.301.033		34.340.168	55.046	34.409.196(10)	
SR221	31.000.559	31.100.736	34.301.033		34.340.324	55.065	34.409.196(10)	
SR226	31.000.559	31.100.736	34.301.033		34.340.324	55.065	34.409.196(10)	
SR282	31.000.458	31.100.627	34.301.033		34.340.106	55.046	33.916.014(10)	
W14175	31.000.434	31.100.542	34.301.084		34.340.169	55.066		
W19178	31.000.227	31.100.437	34.301.084		34.340.169	55.066		
W19230	31.000.227	31.100.437	34.301.084		34.340.169	55.066		
W23180	31.000.453	31.100.568	34.301.097		34.340.169	55.066		
W23230	31.000.453	31.100.568	34.301.097		34.340.169	55.066		

Notes: (A)Field & housing have additional plastic guarding,(B)AC only,(C)AC/DC,(D)AC conversion kit,(E)Brush is set of 2

Codes: (1)-Chuck w/ Key, (2)-Chuck Key, (3)-Ram Blade, (4)-Fixed Blade, (5)-Foot Plate, (6)-Roller Guide
(7)-Flange Nuts, (8)-Cutting Blade, (9)-Collet, (10)-Sanding Pad/Plate (11)-Keyless Chuck

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Authorized Service Stations

State	City	Address	Phone #
ALABAMA	BIRMINGHAM 35203	Alabama Jack Co., Inc., 1140 5th Avenue North	205-251-8156
	BIRMINGHAM 35233	Power Tool Service, Inc., 1113 Fourth Ave. South	205-323-4311
	PRICHARD 36610	Welding Engineering Supply, 940 M. L. King Drive	205-457-8681
ARIZONA	PHOENIX 85016	Glenn's Tool Service, 2149 E. Indian School Rd.	602-264-6203
	PHOENIX 85040	Arizona Armature Service, 4641 South 33rd Street	602-253-7149
	TUCSON 85719	Western Tool Inc., 702 S. Campbell Avenue	602-884-0504
ARKANSAS	LITTLE ROCK 72202	Electric Tool Service Inc., 1419 W. 10th St.	501-374-8180
CALIFORNIA	CONCORD 94520	Electric Euro Service, 1913 Salvio Street	510-687-1442
	EUREKA 95501	Senn Electric, 2104 4th Street	707-443-0416
	LOS ANGELES 90023	Minit Tool Co., 3026 E. Olympic Blvd.	213-264-7006
	HOLLYWOOD 91605	Bucknall Power Tool Service, 11910 Vose St.	818-765-0228
	PASO ROBLES 93446	Maintenance Service & Supply, 1511 Riverside Avenue # 50	805-238-7188
	SACRAMENTO 95814	California Electric Service Inc., 1821 Q Street	916-443-5711
	SAN DIEGO 92110	Best Impact Inc., 980-B Buenos Avenue	619-276-3887
	SAN FRANCISCO 94103	Craig & Green, 82 14th Street	415-863-6442
	SANTA ANA 92705	Alexander Power Tools, 1706 S. Grand Ave.	714-541-6631
	SANTA ROSA 95401	Acme Electric Tool Repair, 742 Wilson Street	707-546-5862
	SIMI VALLEY 93065	Simi Tool Repair, 729 Los Angeles Avenue	805-584-8665
COLORADO	DENVER 80223	Bartell Tool Service, Inc., 1448 W. Cedar Ave.	303-777-5463
CONNECTICUT	OAKVILLE 06779	Watertown Tool Repair, 28 Main Street	203-596-1344
DIST.OF COLUMBIA	WASHINGTON 20002	ATMS, Inc., 1933 Montana N.E.	202-636-8670
FLORIDA	APOPKA 32703	Contractors Tool Service, Inc., 2642 Floral Ave., Suite No. 4	407-292-2808
	DAYTONA BEACH 32117	C & C Power Tools, 856 Mason Avenue	904-253-5815
	FORT LAUDERDALE 33334	Broward Tool Repair Inc., 3547 N. Dixie Hwy.	305-566-4114
	JACKSONVILLE 32205	North Florida Machinery & Tool Repair, 230-B Edgewood Ave. S.	904-387-4455
	ORLANDO 32804	G M Tool & Fasteners, 2420 N. Orange Blossom Trail	407-425-2919
	SARASOTA 34237	Frinke Power Tool Service, 1322 East Avenue No.	813-365-3442
GEORGIA	ALBANY 31707	Air Specialists, Inc., Hwy 82 West	912-435-0084
	ATLANTA 30313	Power Tool Service, 249 Simpson St. NW	404-524-0202
	AUGUSTA 30901	Tool Service Center, Inc., 302 Walton Way	404-724-4803
HAWAII	HONOLULU 96819	Larsen's Tool Repair, 2126-B Eluwene Street	808-847-0038
	KAHULUI 96732	Maui Power Tool Service, Inc., 305 Dairy Road	808-877-3440
IDAHO	BOISE 83705	H. S. Power Tool Service, 2506 S. Orchard St.	208-343-5656
ILLINOIS	ELK GROVE VILLAGE 60007	Region 5 Service Inc., 2801-C W. Touhy Street	708-299-9880
	KANKAKEE 60901	Woody's EMS, Inc., 431 S. Washington Ave.	815-932-6363
INDIANA	INDIANAPOLIS 46241	Macco Equipment Co. Inc., 3129 Kentucky Ave.	317-248-1444
IOWA	DES MOINES 50317	Electrical Engineering & Equipment Co., 1808 Delaware Ave.	515-266-8890
KENTUCKY	LOUISVILLE 40217	Tool Repair Service, 1200 Goss Ave.	502-635-6888
LOUISIANA	BATON ROUGE 70816	Tiger City Enterprises, Inc., 10715 Cherry Hill Avenue	504-293-3567
	HARVEY 70058	Industrial Welding Supply, 1452 Fourth Street	504-362-9395
	SHREVEPORT 71129	Mac's Power Tool Repair, 5023 Flournoy Lucas Rd.	318-688-7474
MARYLAND	HAGERSTOWN 21740	Apparatus Repair & Engineering, Inc., 90 W. Lee Street	301-739-8285
MASSACHUSETTS	EVERETT 02149	Panda Electrical Service Inc., 165 Main St.	617-389-1442
	HOLYOKE 01040	High Standard Electric Service, 85 N. Bridge Street	413-533-6536
	LEXINGTON 02173	Minuteman Tool Repair Inc.	617-861-6326
MICHIGAN	DETROIT 48234	Electric Tool & Service Co., 19442 Conant Avenue	313-366-3830
	MIDLAND 48640	Mid Michigan Repair, 680 Poseyville	517-835-6014
MINNESOTA	MINNEAPOLIS 55407	Deko Factory Serv. Inc., 3048 Bloomington Ave. So.	612-721-6651
MISSISSIPPI	HATTIESBURG 39401	Mitchell Tool & Equipment, 2000 Byron Street	601-264-3308
MISSOURI	N. KANSAS CITY 64116	Portable Tool Service, Inc., 1246 Swift Avenue	816-471-3703
	ST. LOUIS 63139	P.M. Electric Co. Inc., 5280 Fyler Ave.	314-351-4550
NEBRASKA	LINCOLN 68504	Lincoln Tool Center, 3535 N. 40th Street	402-464-1157
	OMAHA 68127	Flohr Electric Service, 4356 S. 90th Street	402-331-6863
NEVADA	LAS VEGAS 89118	All Tools Repair, 5725 S. Valley View, Suite 8	702-736-8665
	LAS VEGAS 89109	Tool Service, Inc., 3239 Industrial Road	702-734-9161
	SPARKS 89431	Industrial Electric, 310 Kresge Lane	702-331-1032
NEW HAMPSHIRE	AMHERST 03031	Power Tool & Fastener Inc., 65 Route 101A	603-673-2724
	EXETER 03833	Minuteman Tool Repair, Inc., 96 Epping Rd.	603-778-7776

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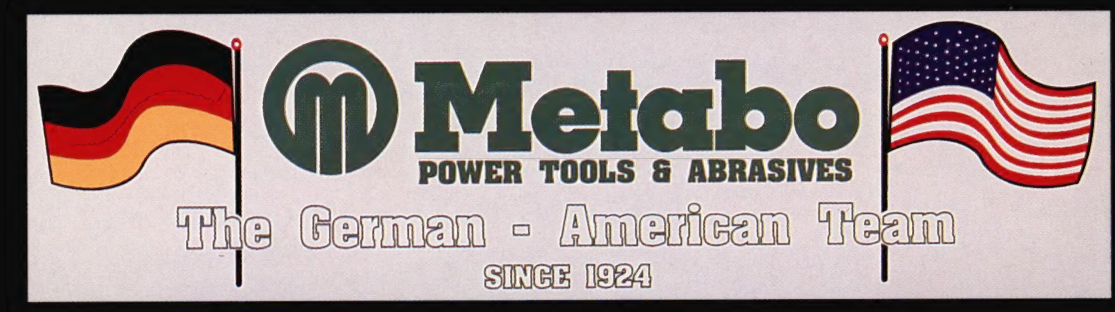
Authorized Service Stations

State	City	Address	Phone #
NEW JERSEY	HAWTHORNE 07506	Atlantic Tool Systems Inc., 150 Fifth Avenue	201-238-0009
	KENILWORTH 07033	Air & Electric Tool Service, 215 N. 8th Street	908-272-5567
	NEPTUNE 07753	Power Tool Company, 609 Memorial Drive	908-776-8282
NEW MEXICO	ALBUQUERQUE 87107	Telco Electric Inc., 2906 Fourth Street N.W.	505-345-2426
NEW YORK	ALBANY 12206	Albany Burner Control Inc., 20 Colvin Avenue	518-459-8856
	BINGHAMTON 13904	Hulbert Electrical Inc., 78 Travis Ave.	607-724-3968
	BROOKLYN 11208	White Tool & Supply Inc., 3047 Atlantic Ave.	718-277-8844
	BUFFALO 14210	S-S Electric Repair Shop Inc., 2470 Seneca St.	716-823-1232
	BUFFALO 14204	United Electric Motors Inc., 106 Michigan Ave.	716-855-1945
	HUNTINGTON STATION 11746	A & T Power Tools, 505 Jericho Turnpike	516-271-2141
	PORT CHESTER 10573	Mald Tool & Equipment Co., 21 Abendroth Avenue	914-937-1771
	ROCHESTER 14611	Weld-Tech Inc., 315 Mt. Read Blvd.	716-328-9840
	SYRACUSE 13204	Ramsing Electric Repairs Inc., 914 Emerson Ave.	315-468-1712
	WANTAGH 11793	Ace Tool Repair Inc., 3272 Merrick Road	516-783-8899
NORTH CAROLINA	CHARLOTTE 28206	Portable Tool Service, 3209 Cullman Avenue	704-332-8337
OHIO	CLEVELAND 44109	Tri-County Power Tool, 4597 Pearl Road	216-398-6120
	COLUMBUS 43219	Vollmer Electric Motor Shop, 2920 Switzer Road	614-476-8800
	COLUMBUS 43222	Tradesman Tool Service, 127 No. Central Ave.	614-274-4357
	TOLEDO 43613	Electric Tool & Equipment Inc., 3156 Upton Ave.	419-474-7537
	YOUNGSTOWN 44515	Power Tool & Supply Co., 3699 LeHarps Rd.	216-792-1487
OKLAHOMA	OKLAHOMA CITY 73106	Commercial Tool Repair, 1829 Linwood	405-232-2158
	TULSA 74120	Snider's Specialty Design, 421 E. First Street	918-560-9505
OREGON	PORTLAND 97214	Charles H. Day Co. Inc., 602 S.E. 11th Ave.	503-232-1659
PENNSYLVANIA	ERIE 16501	Perry Mill Supply, 1115 West 12th St.	814-453-5641
	HANOVER 17331	C & E Pneumatic Serv., 301 Poplar St.	717-632-5200
	MECHANICSBURG 17055	Power Tool Service, 34 W. Allen St.	717-697-8233
	MONROEVILLE 15146	Professional Tool Service, 700 Seco Road, Bldg. # 1	412-373-7440
	READING 19605	Reading Electric Motor Service Inc., 4029 Pottsville Pike	215-929-5777
	WEST CHESTER 19380	METABO CORPORATION, 1231 WILSON DRIVE	215-436-5900
PUERTO RICO	CAPARRA TERRACE 00920	A. A. Repair and Rental, Americo Miranda # 1207	809-783-8757
SOUTH CAROLINA	COLUMBIA 29224	Industrial Tool Repair, 237 Pine Lee Road	803-736-7282
	GREENVILLE 29601	Service Repair Co. Inc., 15 Hyde St.	803-242-5893
TENNESSEE	KNOXVILLE 37921	Valley Electric, Inc., 2308 Sycamore Drive	615-637-5787
	MEMPHIS 38104	Jones Tool Service, 1314 Madison Avenue	901-726-0191
	NASHVILLE 37210	Hermitage Tool Inc., 947 4th Avenue South	615-254-0820
TEXAS	AUSTIN 78722	Hamilton Electric Works, 3800 Airport Blvd.	512-472-2428
	CORPUS CHRISTI 78405	Corpus Christi Power Tool & Repair, 3701 Agnes Street	512-883-1117
	DALLAS 75220	Air & Electric Tool Co., 2322 Myrtle Springs Avenue	214-869-3277
	FORT WORTH 76110	Air & Electric Tool Co., 3301 So. Grove	817-921-0231
	HOUSTON 77003	Power Tool Service Co., 3718 Polk	713-228-0100
	HOUSTON 77002	Hydraulic Equipment Service, 1021 North San Jacinto	713-228-9601
	SAN ANTONIO 78205	Electric Motor Serv. & Sales, 1514 E. Commerce Street	512-226-3462
UTAH	SALT LAKE CITY 84115	Stevens' Electric Motor Shop, 3198 Southwest Temple	801-484-1982
VIRGINIA	NORFOLK 23517	Bryan Electric Co., 424 W. 25th Street	804-625-2525
	RICHMOND 23230	Roy's Electric Motor Svc., 3201 Norfolk St.	804-355-5713
	ROANOKE 24017	Rent-Alls of Roanoke Inc., 604 11th St. N.W.	703-345-0184
WASHINGTON	BELLEVUE 98005	Power Tool Service, 12121 Northup Way, Suite 108	206-453-8015
	SEATTLE 98125	Tool Pros, 10334 Lake City Way N.E.	206-525-6448
	SPOKANE 99202	Ace Rock Power Tool Service, E. 1821 Sprague Ave.	509-536-5175
WEST VIRGINIA	HUNTINGTON 25701	Lawter Electric Motor Co., 202 Adams Ave.	304-522-8297

WARRANTY

Metabo power tools have been carefully tested and inspected before shipment and are warranted to be free from any defects in materials and workmanship for a period of 12 months from date of purchase. Should trouble develop, return complete tool prepaid to Metabo Corporation or its nearest authorized Service Station. If inspection shows defective material or workmanship, Metabo will repair or replace (at our option) the tool without charge during the warranty period. Proof of purchase may be required. This warranty does not apply to normal wear and tear. It does not cover any damages caused by careless or unsafe handling, alteration, accidents, misuse, or repair attempted or made by personnel other than Metabo Corporation or its authorized Service Stations. This warranty also excludes chucks and accessories supplied by Metabo Corporation. This warranty applies in lieu of any other warranties, expressed or implied, and variations of its terms are not authorized. The foregoing obligation is Metabo's sole liability under this or any implied warranty, and under no circumstances shall Metabo be liable for any incidental or consequential damages. Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.This warranty gives you specific legal rights, and you may also have other legal rights which vary from state to state.



Metabo Corporation
Manufacturer of Power Tools and Abrasives

1231 Wilson Drive
P.O. Box 2287
West Chester, Pa. 19380

PHONE: 215-436-5900
FAX: 800-638-2261